

580 585 590
 Asp Ile Ser Leu Ser Phe Pro Gly Ser Leu Gly Gly Met Asn Trp Gly
 595 600 605
 Ser Leu Ser Thr Asp Pro Asn Asn Gln Tyr Ile Phe Val Asn Asp Met
 610 615 620
 Arg Leu Gly Leu Trp Val Gln Leu Ile Lys Gln Asp Pro Gln Ser Ala
 625 630 635 640
 Val Ala Asn Thr Gly Gly Glu Ala Val Asn Ala Gly Met Gly Ala Val
 645 650 655
 Pro Met Lys Gly Thr Pro Tyr Ser Val Asn Lys Asn Arg Phe Met Ser
 660 665 670
 Pro Leu Gly Ile Pro Cys Gln Lys Pro Pro Phe Gly Ser Leu Ser Ala
 675 680 685
 Ile Asp Leu Lys Thr Gln Lys Ile Val Trp Gln Val Pro Val Gly Thr
 690 695 700
 Val Gln Asp Thr Gly Pro Phe Gly Val Lys Met Arg Met Gln Met Pro
 705 710 715 720
 Val Gly Met Pro Thr Leu Gly Gly Thr Leu Ala Thr Gln Gly Gly Leu
 725 730 735
 Val Phe Ile Ala Gly Thr Gln Asp Tyr Tyr Leu Arg Ala Phe Asp Ser
 740 745 750
 Ser Thr Gly Glu Glu Val Trp Lys Ala Arg Leu Pro Val Gly Ser Gln
 755 760 765
 Gly Gly Pro Ile Ser Tyr Val Ser Pro Lys Thr Gly Lys Gln Tyr Ile
 770 775 780
 Leu Ile Ser Ala Gly Gly Ala Arg Gln Ser Pro Asp Arg Gly Asp Tyr
 785 790 795 800
 Val Ile Ala Tyr Ala Leu Asp Lys
 805

<210> 10172

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 10172

Leu Asn Arg Val His Ala Asn Arg Gln Asn Ser Arg Arg Ser Arg Pro
 1 5 10 15
 Met Gln Gln Phe Glu Trp Ile His Ala Ala Trp Leu Ala Phe Ala Ile
 20 25 30
 Val Leu Glu Ile Ile Ala Asn Val Phe Leu Lys Phe Ser Asp Gly Phe
 35 40 45
 Arg Arg Lys Ala Tyr Gly Leu Leu Ser Ile Ala Ala Val Leu Gly Ala
 50 55 60
 Phe Ser Ala Leu Ser Gln Ala Val Lys Gly Ile Asp Leu Ser Val Ala
 65 70 75 80
 Tyr Ala Leu Trp Gly Gly Phe Gly Ile Ala Ala Thr Leu Ala Ala Gly
 85 90 95
 Trp Ile Met Phe Gly Gln Arg Leu Asn Asn Lys Gly Trp Ile Gly Leu
 100 105 110
 Val Leu Leu Leu Ala Gly Met Ile Met Ile Lys Leu Ala
 115 120 125

<210> 10173

<211> 306

<212> PRT

<213> Enterobacter cloacae

<400> 10173

Tyr Phe Lys Asn Met Asn Ile Glu Leu Arg His Leu Arg Tyr Phe Val
 1 5 10 15

Ala Val Ala Glu Glu Leu His Phe Gly Arg Ala Ala Ala Arg Leu Asn
 20 25 30
 Ile Ser Gln Pro Pro Leu Ser Gln Gln Ile Gln Ile Leu Glu Gln Gln
 35 40 45
 Val Gly Ala Arg Leu Leu Ala Arg Thr Asn Arg Ser Val Ser Leu Thr
 50 55 60
 Ala Ala Gly Lys Gln Phe Leu Ala Asp Ser Arg Gln Ile Leu Ser Met
 65 70 75 80
 Val Glu Asp Ala Ala Ala Arg Ala Glu Arg Leu Tyr Leu Gly Glu Thr
 85 90 95
 Gly Glu Leu Arg Ile Gly Phe Thr Ser Ala Pro Phe Ile Ser Ala
 100 105 110
 Val Ser Gln Thr Leu Ser Ser Phe Arg Arg Asn Phe Pro Asp Val His
 115 120 125
 Ile Gln Thr Arg Glu Ile Asn Thr Arg Glu Gln Ile Ser Pro Leu Asn
 130 135 140
 Glu Gly Ser Leu Asp Leu Gly Leu Met Arg Asn Thr Gln Leu Pro Asp
 145 150 155 160
 Thr Leu Ala Trp Gln Val Ile Leu Arg Glu Pro Leu Met Ala Met Ile
 165 170 175
 Pro Arg Asp His Pro Leu Ala Ala Gln His Ser Val Thr Leu Ala Glu
 180 185 190
 Leu Ala Lys Glu Pro Phe Val Phe Phe Asp Pro Gln Val Gly Thr Gly
 195 200 205
 Leu Tyr Asp Asp Ile Leu Gly Leu Met Arg Arg Tyr Gly Leu Val Pro
 210 215 220
 Thr Ile Ala Gln Glu Val Gly Glu Ala Met Thr Ile Ile Gly Leu Val
 225 230 235 240
 Ala Ala Gly Leu Gly Val Ser Ile Leu Pro Ala Ser Phe Lys Arg Val
 245 250 255
 Gln Leu Ala Glu Met Arg Trp Val Lys Ile Ala Glu Gln Asp Ala Val
 260 265 270
 Ser Glu Met Trp Leu Val Trp Ser Lys His His Glu Gln Ser His Ala
 275 280 285
 Ala Gln Arg Phe Lys Glu Gln Leu Ile Thr Ala Ser Arg Gly His Tyr
 290 295 300
 Leu
 305

<210> 10174

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 10174

Gly Ser Glu Met Thr Lys Ile Thr Pro Glu Tyr Thr Val Val Asp Leu
 1 5 10 15
 Ser Arg Trp Ala Arg Lys Glu His Phe Glu Val Phe Gln Gly Phe Ala
 20 25 30
 Gln Ser Thr Phe Asn Gln Thr Val Gln Leu Asp Ile Thr Val Leu Leu
 35 40 45
 Lys His Ile Lys Glu Val Gly Trp Lys Phe Tyr Pro Ala Ile Ile Ser
 50 55 60
 Leu Ile Ser His Val Val Asn Arg His Pro Glu Phe Arg Met Ala Met
 65 70 75 80
 Lys Asp Asp Glu Leu Val Ile Trp Asn Glu Val His Pro Ser Tyr Thr
 85 90 95
 Leu Phe His Lys Glu Thr Glu Thr Phe Ser Ser Leu Trp Ser His Tyr
 100 105 110
 Asp Gly Asn Ile His His Phe Gln Arg Val Tyr Ala Glu Asp Val Ala
 115 120 125

Arg Tyr Gly Asn Ile Leu Ala Tyr Trp Pro Lys Glu Glu Ser Arg Glu
 130 135 140
 Asn Ile Phe Phe Ile Ser Asp Ile Pro Trp Val Ser Phe Ser Ser Phe
 145 150 155 160
 Asn Val Asn Val Ala Asn Met Arg Asn Phe Phe Ala Pro Met Phe Thr
 165 170 175
 Phe Gly Lys Tyr Tyr Asn Gln Asp Glu Lys Val Leu Leu Pro Phe Ala
 180 185 190
 Val Gln Val His His Ser Val Cys Asp Gly Phe His Val Ala Arg Met
 195 200 205
 Ile Asn Glu Leu Gln Glu Leu Cys Asp Asn Leu Pro His His Ser Glu
 210 215 220
 Ala Pro Asn Val
 225

<210> 10175

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 10175

Thr Val Asn Asp Val Asn Lys Tyr Ala Ala Ile Thr Leu Leu Ala Thr
 1 5 10 15
 Val Leu Val Gly Cys Asp Asn Asn Thr Ala Pro Leu Ser Phe Thr Pro
 20 25 30
 Glu Met Ala Ser Phe Ser Asn Glu Phe Asp Phe Asp Pro Leu Arg Gly
 35 40 45
 Pro Val Lys Asp Phe Thr Gln Thr Leu Phe Asn Asp Lys Gly Glu Val
 50 55 60
 Ser Lys Arg Val Thr Gly Thr Met Ser Thr Glu Gly Cys Phe Asp Thr
 65 70 75 80
 Leu Glu Leu His Asp Leu Glu Ala Asn Thr Gly Val Ala Leu Val Leu
 85 90 95
 Asp Ala Asn Tyr Tyr Val Asp Ala Glu Thr Gln Gln Gln Lys Val Lys
 100 105 110
 Leu Gln Gly Lys Cys Gln Leu Ala Glu Leu Pro Ser Ala Gly Leu Thr
 115 120 125
 Trp Asp Thr Asp Asp Asn Gly Phe Val Val Ala Ala His Ser Lys Glu
 130 135 140
 Met Glu Val Lys Tyr Gln Tyr Asp Ala Asp Gly Tyr Pro Leu Gly Lys
 145 150 155 160
 Thr Thr Val Ser Gly Asp Gln Arg Leu Ser Val Lys Ser Val Pro Ser
 165 170 175
 Lys Asp Leu Arg Lys Arg Met Asp Tyr Thr Ala Val Ser Leu Leu Asn
 180 185 190
 Asp Lys Pro Met Gly Asn Val Lys Gln Ser Cys Asp Tyr Asp Arg His
 195 200 205
 Asn Asn Pro Val Asn Cys Glu Leu Leu Ile Thr Asp Asp Ser Val Lys
 210 215 220
 Pro Ala Val Glu Arg Lys Tyr Thr Ile Lys Asn Ser Ile Glu Tyr Tyr
 225 230 235 240

<210> 10176

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 10176

Glu Ala Gly Ser Glu Ile Pro Val Arg Ser Gly Leu Ser Ala Gly Gly

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1          5          10          15
Pro Ser Gly Arg Arg His Ser Leu Glu Leu Val Asn Glu Glu Arg Met
      20      25      30
Met Lys Ser Val Val Ile Gln Gln Pro Asn Ala Leu Glu Ile Glu Glu
      35      40      45
Arg Pro Leu Pro Leu Pro Gly Ala Gly Asp Val Arg Val Lys Ile Lys
      50      55      60
Leu Ala Gly Ile Cys Gly Ser Asp Ser His Ile Tyr Arg Gly His Asn
65      70      75      80
Pro Phe Ala Lys Tyr Pro Arg Val Ile Gly His Glu Phe Phe Gly Glu
      85      90      95
Ile Asp Ala Val Gly Glu Gly Val Glu Gly Thr Arg Leu Gly Gln Arg
      100      105      110
Val Ser Val Asp Pro Val Ile Ser Cys Gly His Cys Tyr Pro Cys Ser
      115      120      125
Val Gly Lys Pro Asn Val Cys Thr Ser Leu Val Val Leu Gly Val His
      130      135      140
Arg Asp Gly Gly Phe Ser Glu Tyr Ala Val Val Pro Ala Lys Asn Ala
145      150      155      160
Trp His Ile Pro Asp Ala Ile Pro Asp Lys His Ala Val Met Val Glu
      165      170      175
Pro Phe Thr Ile Ala Ala Asn Val Thr Gly Gln Ala Lys Pro Thr Glu
      180      185      190
Gln Asp Val Ala Leu Ile Tyr Gly Ala Gly Pro Met Gly Leu Val Thr
      195      200      205
Val Gln Ala Leu Lys Gly Val Tyr Lys Val Lys Gln Val Ile Val Val
      210      215      220
Asp Arg Ile Asp Glu Arg Leu Glu Met Ala Gln Arg Ser Gly Ala Asp
225      230      235      240
Trp Val Phe Asn Asn Gly Glu Gln Ser Leu Gln Thr Ala Leu Asp Glu
      245      250      255
Lys Gly Ile Lys Pro Thr Leu Ile Ile Asp Ala Ala Cys His Pro Ser
      260      265      270
Ile Leu Gln Glu Ala Ile Thr Leu Ala Ser Pro Ala Ala Arg Ile Val
      275      280      285
Leu Met Gly Phe Ser Ser Asp Pro Ser Gln Ile Val Gln Gln Gly Ile
290      295      300
Thr Gly Lys Glu Leu Ser Ile Phe Ser Ser Arg Leu Asn Ala Asn Lys
305      310      315      320
Phe Pro Val Val Ile Asp Trp Leu Glu Lys Gly Leu Ile Asp Pro Glu
      325      330      335
Lys Leu Val Thr His Thr Phe Asp Tyr His His Val Thr Asp Ala Ile
      340      345      350
Glu Leu Phe Glu Lys Asp Gln Arg Gln Cys Cys Lys Val Leu Leu Thr
      355      360      365
Phe Asp Gln
      370

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<210> 10177

<211> 679

<212> PRT

<213> Enterobacter cloacae

<400> 10177

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Thr Met Ser Val Asn Asn Pro Phe Phe Glu Ile Ser Leu Leu Pro Tyr
1          5          10          15
Gln Ala Pro Arg Phe Asp Ala Ile Asn Asp Ser His Tyr Arg Pro Ala
      20      25      30
Phe Asp Glu Ala Met Arg Leu Lys Arg Ala Asp Ile Asp Ala Ile Ile
      35      40      45
Ala Gln Arg Ala Ala Pro Asp Phe Asp Asn Thr Val Leu Ala Leu Glu

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50	55	60
Lys Ser Gly Ala Met	Leu Ser Arg Val Ser Ser Val Phe Phe Ala Met	
65	70	75
Thr Ser Ala His Thr	Asn Asp Asp Leu Gln Ala Leu Asp Glu Gln Phe	80
85	90	95
Ser Thr Glu Leu Ala Gly	Leu Ala Asn Asp Ile Trp Leu Asn Asp Thr	
100	105	110
Leu Phe Ala Arg Val Glu	Ala Val Trp Gln Asp Arg Glu Ala Leu Asp	
115	120	125
Ala Glu Ser Arg Arg Leu	Thr Glu Glu Thr Tyr Gln His Phe Val Leu	
130	135	140
Ala Gly Ala Arg Leu Asn	Ala Asp Glu Lys Ala Glu Leu Lys Ser Leu	
145	150	155
Asn Thr Glu Ala Ala Thr	Leu Thr Ser Gln Phe Asn Gln Arg Leu Leu	
165	170	175
Ala Ala Asn Lys Ala Gly	Gly Leu Val Val Asp Asp Val Arg Gln Leu	
180	185	190
Asp Gly Leu Ser Ala Glu	Glu Met Ala Ala Ala Ala His Ala Ala Ala	
195	200	205
Glu Lys Gly Leu Lys Glu	Arg Trp Leu Ile Pro Leu Leu Asn Thr Thr	
210	215	220
Gln Gln Pro Ala Leu Ala	Leu Ala Leu Arg Glu Thr Arg Lys Lys	
225	230	235
Leu Phe Ser Ala Gly Trp	Glu Arg Thr Gln Lys Gly Asp Glu Asn Asp	
245	250	255
Thr Arg Glu Leu Ile Arg	Arg Arg Leu Thr Ala Leu Arg Ala Arg Gln Ala	
260	265	270
Gln Leu Leu Gly Phe Asp	Asn Tyr Ala Ser Trp Ser Ile Ala Asp Gln	
275	280	285
Met Ala Lys Thr Pro Glu	Ala Ala Leu Glu Phe Met Arg Gly Ile Val	
290	295	300
Pro Ala Ala Arg Gly Arg	Ala Ala Leu Glu Gln Ala Asp Ile Gln Lys	
305	310	315
Val Ile Asp Asp Glu Gln	Gly Gly Phe Thr Val Gln Ala Trp Asp Trp	
325	330	335
Ala Phe Tyr Ala Glu Arg	Val Arg Ser Ala Lys Tyr Ala Leu Asp Glu	
340	345	350
Ser Gln Ile Lys Pro Tyr	Phe Ala Leu Asn Thr Val Leu Glu Asp Gly	
355	360	365
Val Phe Trp Thr Ala Thr	Gln Leu Phe Gly Ile Arg Phe Val Glu Arg	
370	375	380
Phe Asp Ile Pro Val Tyr	His Pro Asp Val Arg Val Trp Glu Ile Phe	
385	390	395
Asp His Thr Gly Glu Gly	Met Ala Leu Phe Tyr Gly Asp Phe Phe Ala	
405	410	415
Arg Asp Ser Lys Ala Gly	Gly Ala Trp Met Gly Asn Phe Val Glu Gln	
420	425	430
Ser Tyr Glu Phe Ala Ala	Arg Pro Val Ile Tyr Asn Val Cys Asn Tyr	
435	440	445
Gln Lys Pro Ala Asn Gly	Gln Thr Ala Leu Ile Ser Trp Asp Asp Val	
450	455	460
Ile Thr Leu Phe His Glu	Phe Gly His Thr Leu His Gly Leu Phe Ala	
465	470	475
Ser Gln Arg Tyr Ala Thr	Leu Ser Gly Thr Asn Thr Pro Arg Asp Phe	
485	490	495
Val Glu Phe Pro Ser Gln	Ile Asn Glu His Trp Ala Ser His Pro Gln	
500	505	510
Val Phe Ala His Phe Ala	Arg His Tyr Gln Thr Gly Glu Pro Met Pro	
515	520	525
Asp Ala Leu Arg Glu Lys	Met Leu Asn Ala Thr Gln Phe Asn Lys Gly	
530	535	540

Tyr Asp Met Thr Glu Leu Leu Ser Ala Ala Leu Leu Asp Met Asn Trp
 545 550 555 560
 His Gly Ile Gln Glu Pro Val Glu Asp Val Glu Ala Phe Glu Ala Ala
 565 570 575
 Ala Leu Lys Lys Glu Gly Leu Asp Leu Pro Ala Val Pro Pro Arg Tyr
 580 585 590
 Arg Ser Ser Tyr Phe Ala His Ile Phe Gly Gly Gly Tyr Ala Ala Gly
 595 600 605
 Tyr Tyr Ala Tyr Leu Trp Thr Gln Met Leu Ala Asp Asp Gly Tyr Gln
 610 615 620
 Trp Phe Val Glu Gln Gly Gly Leu Thr Arg Glu Asn Gly Gln Thr Phe
 625 630 635 640
 Arg Glu Ala Ile Leu Ser Arg Gly Asn Ser Thr Asp Leu Ala Glu Leu
 645 650 655
 Tyr Arg Asn Trp Arg Gly His Asp Pro Lys Ile Glu Pro Met Leu Glu
 660 665 670
 Asn Arg Gly Leu Ser Ala
 675

<210> 10178

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 10178

Ile Gly His Lys Glu Thr Gly Val Arg Asn Val Lys Ile Glu Glu Val
 1 5 10 15
 Glu Gln Leu Asp Arg Glu Val Val Ala Ile Gly Asn Asp Tyr Val Gln
 20 25 30
 Gly Phe Met Leu Pro Gln His Lys Arg Arg Ala Gln Leu Leu Tyr
 35 40 45
 Gly Ala Thr Gly Leu Met His Val Ile Thr Gln Asp Gly Glu Trp Ile
 50 55 60
 Val Pro Pro Gln His Ala Val Trp Ile Pro Pro Glu Thr Met His Ala
 65 70 75 80
 Val Lys Phe Val Gly Val Thr Thr Arg Ser Leu Tyr Ile Glu Pro Asp
 85 90 95
 Phe Val Asn Ala Phe Leu Lys Tyr Pro Arg Cys Glu Val Ile Ser Val
 100 105 110
 Ser Pro Leu Leu Arg Gln Leu Leu Leu Glu Ser Val Asp Leu Pro Pro
 115 120 125
 Leu Tyr Glu Ser Thr Arg Asp Arg Ala Leu Ile Asn Leu Met Ile Leu
 130 135 140
 Glu Leu Ala Ala Met Pro Val Arg Glu Phe Asp Ile Pro Leu Pro Arg
 145 150 155 160
 His Pro Ala Leu Leu Ala Leu Cys Gln Ala Phe Leu Leu Asn Pro Ser
 165 170 175
 Ile His Asp Pro Ala Glu Arg Trp Ala Asn Ala Leu Phe Met Ser Asp
 180 185 190
 Ser Thr Phe Arg Arg His Phe Leu Lys Gln Met Gly Met Ser Phe Ser
 195 200 205
 Val Trp Arg Gln Arg Ala Cys Val Val Ser Ala Leu Ala Leu Leu Ile
 210 215 220
 Thr Gly Lys Pro Val Asn Glu Val Ala Leu Thr Leu Gly Tyr Asp Asn
 225 230 235 240
 Ala Ser Ser Phe Ala Thr Met Phe Arg Arg Val Thr Gly Gln Pro Pro
 245 250 255
 Ser Tyr Tyr His Pro Ala Leu Phe Lys Lys Phe His Gly Thr Gly His
 260 265 270
 Arg Ser
 275

<210> 10179
 <211> 165
 <212> PRT
 <213> Enterobacter cloacae

<400> 10179
 Ile Met Ile Asn Lys Ile Leu Val Ser Ala Cys Leu Met Gly Leu Lys
 1 5 10 15
 Val Arg Tyr Asn Gly Lys Glu Lys Ala Gln Met Thr His Gln Leu Ala
 20 25 30
 Arg Trp Gln Gln Glu Gln Arg Leu Val Ile His Cys Pro Glu Leu Ala
 35 40 45
 Ala Gly Leu Pro Val Pro Arg Pro Pro Ala Glu Ile Met Ser Ala Glu
 50 55 60
 Gly Lys Asp Val Met Arg Gly Gln Ala Arg Ile Ile Glu Asn Thr Gly
 65 70 75 80
 Thr Asp Val Thr Gly His Tyr Gln Leu Ala Ala Trp Leu Ala Leu Arg
 85 90 95
 Ala Ala Gln Glu Ala Gly Cys Thr Ala Ala Leu Leu Thr Asp Gly Ser
 100 105 110
 Pro Thr Cys Gly Thr Gln Phe Ile Tyr Asn Gly Ser Phe Ser Asn Gln
 115 120 125
 Arg Lys Ser Gly Met Gly Val Ala Ala Ser Leu Leu Ser Glu His Gly
 130 135 140
 Ile Ala Val Phe Ser Glu Thr Gln Phe Ala Glu Leu Val Asn Trp Ile
 145 150 155 160
 Glu Glu Arg Glu 165

<210> 10180
 <211> 103
 <212> PRT
 <213> Enterobacter cloacae

<400> 10180
 Ile Tyr Arg Phe Ile Asn Arg Arg Asn Asp Met Lys Lys Ala Leu Leu
 1 5 10 15
 Gly Ser Val Leu Ala Leu Thr Val Ala Ser Phe Gly Ala Ser Ala Ala
 20 25 30
 Asp Met Ile Ser Lys Asp Glu Ala His His Phe Lys Leu Glu Tyr Leu
 35 40 45
 Gly Asn Val Ser Val Gly Ala Ser Gly Gly Gln Ile Ser Ser Pro Ser
 50 55 60
 Asp Leu His Gln Lys Leu Ser Lys Leu Ala Asp Glu Lys Gly Gly Lys
 65 70 75 80
 Tyr Tyr Val Ile Ile Ala Ala Arg Glu His Gly Pro Asn Phe Gln Ala
 85 90 95
 Val Ala Glu Val Phe Lys 100

<210> 10181
 <211> 530
 <212> PRT
 <213> Enterobacter cloacae

<400> 10181
 Gln Ser Glu Cys His Thr Asp Lys Ser Arg Asn Ala Ile Pro Leu Leu
 1 5 10 15
 Asp Cys Ile His Thr Leu Arg Ser Ile Thr Lys Glu Tyr Pro Met Ser
 20 25 30

Glu Ser His Val Ala Ile Leu Pro Gly Val Gln Gln Phe Leu Asp Arg
 35 40 45
 Gln His Gly Leu Trp Ile Glu Gly Arg Gln Ala Ala Ser Asp Ser Glu
 50 55 60
 Lys Arg Leu Asn Val Tyr Asn Pro Ala Thr Gly Glu Val Ile Ala Ser
 65 70 75 80
 Thr Ala Asp Ala Ser Val Asp Asp Val Asp Arg Ala Val Met Ser Gly
 85 90 95
 Trp Arg Ala Phe Val Ala Arg Ser Trp Ala Gly Arg Leu Pro Ala Glu
 100 105 110
 Arg Glu Arg Ile Leu Leu Arg Phe Ala Asp Leu Val Glu Gln His Gly
 115 120 125
 Glu Glu Leu Ala Gln Leu Glu Thr Leu Glu Gln Gly Lys Ser Ile Asn
 130 135 140
 Ile Ser Arg Ala Phe Glu Val Gly Cys Thr Leu Asn Trp Met Arg Tyr
 145 150 155 160
 Thr Ala Gly Leu Thr Thr Lys Ile Ala Gly Lys Thr Leu Asp Leu Ser
 165 170 175
 Ile Pro Leu Pro Gln Gly Ala Arg Tyr Gln Ala Trp Thr Arg Lys Glu
 180 185 190
 Pro Val Gly Val Val Ala Gly Ile Val Pro Trp Asn Phe Pro Leu Met
 195 200 205
 Ile Gly Met Trp Lys Val Met Pro Ala Leu Ala Ala Gly Cys Ser Ile
 210 215 220
 Val Ile Lys Pro Ser Glu Thr Thr Pro Leu Thr Leu Leu Arg Val Ala
 225 230 235 240
 Glu Leu Ala Ser Glu Ala Gly Ile Pro Asp Gly Val Phe Asn Val Val
 245 250 255
 Thr Gly Ser Gly Ala Val Cys Gly Ala Ala Leu Thr Ser His Pro Arg
 260 265 270
 Ile Ala Lys Val Ser Phe Thr Gly Ser Thr Ala Thr Gly Lys Gln Ile
 275 280 285
 Ala Arg Val Ala Ala Asp Thr Leu Thr Gly Val Thr Leu Glu Leu Gly
 290 295 300
 Gly Lys Asn Pro Ala Ile Val Leu Lys Asp Ala Asp Pro Ala Trp Val
 305 310 315 320
 Ile Glu Gly Leu Met Thr Gly Ser Phe Leu Asn Gln Gly Gln Val Cys
 325 330 335
 Ala Ala Ser Ser Arg Ile Tyr Ile Glu Ala Pro Leu Phe Asp Thr Leu
 340 345 350
 Val Ser Gly Phe Glu Gln Ala Val Lys Ser Leu Ser Val Gly Pro Gly
 355 360 365
 Met Ser Pro Asp Ala Phe Ile Asn Pro Leu Val Ser Arg Ala His Cys
 370 375 380
 Asp Lys Val Gln Ala Phe Leu Asp Glu Ala Lys Ala His Asn Ala Glu
 385 390 395 400
 Leu Ile Ala Gly Asn Arg Gly Pro Asp Gly Lys Gly Tyr Tyr Val Ser
 405 410 415
 Pro Thr Leu Val Val Asn Pro Asp Asn His Leu Arg Leu Thr Arg Glu
 420 425 430
 Glu Val Phe Gly Pro Val Val Asn Leu Val Arg Val Asp Asp Gly Glu
 435 440 445
 Glu Ala Leu Gln Leu Ala Asn Asp Thr Glu Tyr Gly Leu Thr Ala Ser
 450 455 460
 Val Trp Thr Gln Asn Ile Ser Lys Ala Leu Ala Tyr Thr Asp Arg Leu
 465 470 475 480
 Gln Ala Gly Thr Val Trp Val Asn Ser His Thr Leu Ile Asp Ala Asn
 485 490 495
 Leu Pro Phe Gly Gly Met Lys Gln Ser Gly Thr Gly Arg Asp Phe Gly
 500 505 510
 Pro Asp Trp Leu Asp Gly Trp Cys Glu Thr Lys Ser Val Cys Val Arg

515 520 525
Tyr
530

<210> 10182
<211> 333
<212> PRT
<213> Enterobacter cloacae

<400> 10182
Leu Leu Arg Asn Gln Met Ile His His Phe Ala Ile Cys Gly Asp Leu
1 5 10 15
Thr Asn His Lys Gly Gly Tyr Val Thr Gln Glu Gln Arg Phe Glu Gln
20 25 30
Arg Ile Ala Gln Glu Thr Ala Ile Glu Pro Gln Asp Trp Met Pro Asp
35 40 45
Ala Tyr Arg Lys Thr Leu Ile Arg Gln Ile Gly Gln His Ala His Ser
50 55 60
Glu Ile Val Gly Met Leu Pro Glu Gly Asn Trp Ile Thr Arg Ala Pro
65 70 75 80
Thr Leu Arg Arg Lys Ala Ile Leu Leu Ala Lys Val Gln Asp Glu Ala
85 90 95
Gly His Gly Leu Tyr Leu Tyr Ser Ala Ala Glu Thr Leu Gly Cys Ala
100 105 110
Arg Glu Asp Ile Tyr Gln Lys Met Leu Asp Gly Lys Met Lys Tyr Ser
115 120 125
Ser Ile Phe Asn Tyr Pro Thr Leu Ser Trp Ala Asp Ile Gly Val Ile
130 135 140
Gly Trp Leu Val Asp Gly Ala Ala Ile Val Asn Gln Val Ala Leu Cys
145 150 155 160
Arg Thr Ser Tyr Gly Pro Tyr Ala Arg Ala Met Val Lys Ile Cys Lys
165 170 175
Glu Glu Ser Phe His Gln Arg Gln Gly Phe Glu Ala Cys Met Ala Leu
180 185 190
Ala Gln Gly Ser Glu Ala Gln Arg Gln Met Leu Gln Asp Ala Ile Asn
195 200 205
Arg Phe Trp Trp Pro Ala Leu Met Met Phe Gly Pro Asn Asp Asp Asn
210 215 220
Ser Pro Asn Ser Ala Arg Ser Leu Ala Trp Lys Ile Lys Arg Phe Gly
225 230 235 240
Asn Asp Glu Leu Arg Gln Arg Phe Val Asp Asn Thr Val Pro Gln Val
245 250 255
Glu Met Leu Gly Met Thr Val Pro Asp Pro Asp Leu Arg Phe Asp Glu
260 265 270
Glu Ser Gly His Tyr Arg Phe Gly Glu Ile Asp Trp Gln Glu Phe Asp
275 280 285
Glu Val Ile Asn Gly Arg Gly Ile Cys Asn His Glu Arg Leu Ala Ala
290 295 300
Lys Arg Lys Ala Trp Asp Asp Gly Ala Trp Val Arg Glu Ala Ala Leu
305 310 315 320
Ala His Ala Glu Lys Gln Arg Ala Arg Gln Ala Ala
325 330

<210> 10183
<211> 100
<212> PRT
<213> Enterobacter cloacae

<400> 10183
Glu Glu Ser Thr Met Ser Asn Val Tyr Trp Pro Leu Tyr Glu Val Phe
1 5 10 15

Val Arg Ser Lys Gln Gly Leu Ser His Arg His Val Gly Ser Leu His
 20 25 30
 Ala Ala Asp Asp Arg Met Ala Leu Glu Asn Ala Arg Asp Ala Tyr Thr
 35 40 45
 Arg Arg Ser Glu Gly Cys Ser Ile Trp Val Val Lys Ala Ser Glu Ile
 50 55 60
 Val Ala Ser Gln Pro Glu Glu Ser Gly Glu Phe Phe Asp Pro Ala Glu
 65 70 75 80
 Ser Lys Val Tyr Arg His Pro Thr Phe Tyr Thr Ile Pro Asp Gly Ile
 85 90 95
 Glu His Met
 100

<210> 10184

<211> 266

<212> PRT

<213> Enterobacter cloacae

<400> 10184

Arg Thr Leu Ile Val Glu Ser Ile Leu Ser His Val Glu Gln Gly Val
 1 5 10 15
 Met Thr Ile Thr Leu Asn Arg Pro Glu Arg Leu Asn Ser Phe Asn Asp
 20 25 30
 Val Met His Gln Gln Leu Ser Glu Cys Leu Lys Gln Ala Glu Arg Asp
 35 40 45
 Asp Ala Ile Arg Cys Leu Leu Ile Ile Gly Ala Gly Arg Gly Phe Cys
 50 55 60
 Ala Gly Gln Asp Leu Asn Asp Arg Asn Val Asp Pro Asn Gly Pro Ala
 65 70 75 80
 Pro Asp Leu Gly Met Ser Val Glu Thr Phe Tyr Asn Pro Leu Val Arg
 85 90 95
 Arg Leu Ala Lys Leu Pro Lys Pro Val Ile Cys Ala Val Asn Gly Val
 100 105 110
 Ala Ala Gly Ala Gly Ala Thr Leu Ala Leu Gly Cys Asp Met Val Ile
 115 120 125
 Ala Ala Arg Ser Ala Ser Phe Val Met Ala Phe Ser Lys Leu Gly Leu
 130 135 140
 Val Pro Asp Cys Gly Gly Thr Trp Leu Leu Pro Arg Val Ala Gly Arg
 145 150 155 160
 Ala Arg Ala Met Gly Leu Ala Leu Leu Gly Asp Lys Leu Ser Ala Glu
 165 170 175
 Gln Ala Gln Ala Trp Gly Met Ile Trp Gln Val Val Asp Asp Glu Gln
 180 185 190
 Leu Ser Ala Thr Val Gln Gln Met Ala Leu His Phe Ala Ser Gln Pro
 195 200 205
 Thr Phe Gly Leu Gly Leu Ile Lys Gln Ala Ile Asn Ala Ala Glu Thr
 210 215 220
 Asn Thr Leu Asp Ala Gln Leu Asp Leu Glu Arg Asp Tyr Gln Arg Leu
 225 230 235 240
 Ala Gly Arg Ser Asp Asp Tyr Arg Glu Gly Val Ser Ala Phe Leu Ala
 245 250 255
 Lys Arg Ala Pro Asn Phe Thr Gly Lys
 260 265

<210> 10185

<211> 444

<212> PRT

<213> Enterobacter cloacae

<400> 10185

Cys Glu Tyr Pro Ala Met Ile Asn Thr Thr Lys Leu Asp Pro Ile Glu

1		5		10		15									
Thr	Ala	Ser	Ile	Asp	Glu	Leu	Gln	Ala	Leu	Gln	Thr	Ala	Arg	Leu	Lys
		20						25					30		
Trp	Thr	Leu	Asn	His	Ala	Tyr	Asn	Asn	Val	Pro	Met	Tyr	Lys	Arg	Lys
		35					40					45			
Phe	Asp	Ala	Ala	Gly	Val	His	Pro	Asp	Asp	Phe	Asn	Glu	Leu	Ala	Asp
	50					55					60				
Leu	Gln	Lys	Phe	Pro	Cys	Thr	Thr	Lys	Gln	Asp	Leu	Arg	Asp	Asn	Tyr
65					70					75				80	
Pro	Phe	Asp	Thr	Phe	Ala	Val	Pro	Met	Glu	Gln	Val	Val	Arg	Ile	His
			85						90					95	
Ala	Ser	Ser	Gly	Thr	Thr	Gly	Lys	Pro	Thr	Val	Val	Gly	Tyr	Thr	Gln
			100					105					110		
Asn	Asp	Ile	Asp	Asn	Trp	Ala	Asn	Ile	Val	Ala	Arg	Ser	Leu	Arg	Ala
		115					120					125			
Ala	Gly	Gly	Ser	Ala	Lys	Asp	Lys	Ile	His	Val	Ala	Tyr	Gly	Tyr	Gly
	130					135				140					
Leu	Phe	Thr	Gly	Gly	Leu	Gly	Ala	His	Tyr	Gly	Ala	Glu	Arg	Leu	Gly
145					150					155				160	
Ala	Thr	Val	Ile	Pro	Met	Ser	Gly	Gly	Gln	Thr	Glu	Lys	Gln	Ala	Gln
			165						170					175	
Leu	Ile	Arg	Asp	Phe	Gln	Pro	Asp	Met	Ile	Met	Val	Thr	Pro	Ser	Tyr
			180					185					190		
Cys	Leu	Asn	Leu	Ile	Glu	Glu	Leu	Glu	Arg	Gln	Met	Gly	Gly	Asp	Ala
		195					200					205			
Ser	Ala	Cys	Ser	Leu	Arg	Val	Gly	Val	Phe	Gly	Ala	Glu	Pro	Trp	Thr
	210					215				220					
Gln	Ala	Met	Arg	Arg	Glu	Ile	Glu	Lys	Arg	Leu	Gly	Ile	Thr	Ala	Leu
225					230					235				240	
Asp	Ile	Tyr	Gly	Leu	Ser	Glu	Val	Met	Gly	Pro	Gly	Val	Ala	Met	Glu
			245						250					255	
Cys	Leu	Glu	Thr	Ala	Asp	Gly	Pro	Thr	Ile	Trp	Glu	Asp	His	Phe	Tyr
		260						265					270		
Pro	Glu	Ile	Val	Asn	Pro	Asn	Asp	Gly	Thr	Pro	Leu	Ala	Asp	Gly	Glu
		275					280					285			
Gln	Gly	Glu	Leu	Leu	Phe	Thr	Thr	Leu	Thr	Lys	Glu	Ala	Leu	Pro	Val
	290					295					300				
Ile	Arg	Tyr	Arg	Thr	Arg	Asp	Leu	Thr	Arg	Leu	Leu	Pro	Gly	Thr	Ala
305					310					315				320	
Arg	Thr	Met	Arg	Arg	Met	Asp	Arg	Ile	Ser	Gly	Arg	Ser	Asp	Asp	Met
			325						330					335	
Leu	Ile	Ile	Arg	Gly	Val	Asn	Val	Phe	Pro	Ser	Gln	Leu	Glu	Glu	Glu
		340						345					350		
Ile	Val	Lys	Phe	Glu	His	Leu	Ser	Pro	His	Tyr	Gln	Leu	Glu	Val	Asn
		355					360					365			
Arg	Arg	Gly	His	Leu	Asp	Ser	Leu	Ser	Val	Lys	Val	Glu	Leu	Lys	Gln
	370					375					380				
Ser	Ser	Leu	Thr	Leu	Thr	His	Glu	Gln	Arg	Cys	Gln	Val	Cys	His	Gln
385					390					395				400	
Leu	Arg	His	Arg	Ile	Lys	Ser	Met	Val	Gly	Ile	Ser	Thr	Asp	Val	Met
			405						410					415	
Ile	Val	Asn	Cys	Gly	Ser	Ile	Pro	Arg	Ser	Glu	Gly	Lys	Ala	Cys	Arg
		420						425					430		
Val	Phe	Asp	Leu	Arg	Lys	Val	Ala	Ala	Asn	Gly					
		435					440								

<210> 10186

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 10186

Phe Ile Gln Glu Lys Asn Asn Asn Arg Met Asn His Met Asn Lys Leu
 1 5 10 15
 Asp Ala Phe Ile Gln His Ala Val Ser Ser Val Pro Val Ser Gly Thr
 20 25 30
 Ser Leu Ile Ser Ser Leu Tyr Gly Asp Ala Leu Ala His Arg Gly Gly
 35 40 45
 Glu Ile Trp Leu Gly Ser Leu Ala Ala Leu Leu Glu Gly Met Gly Phe
 50 55 60
 Gly Glu Arg Phe Val Arg Thr Ala Leu Phe Arg Leu Asn Lys Glu Gly
 65 70 75 80
 Trp Leu Asp Val Ser Arg Ile Gly Arg Arg Ser Phe Tyr Arg Leu Ser
 85 90 95
 Asp Lys Gly Leu Arg Leu Thr Arg Arg Ala Glu Asn Lys Ile Tyr Arg
 100 105 110
 Ala Glu Leu Pro Ala Trp Asp Gly Lys Trp Leu Leu Leu Leu Ser Glu
 115 120 125
 Gly Leu Asp Lys Thr Thr Leu Ala Asp Val Lys Lys Gln Leu Ile Trp
 130 135 140
 Gln Gly Phe Gly Thr Leu Ala Pro Ser Leu Met Ala Ser Pro Ser Gln
 145 150 155 160
 Asn Leu Ala Asp Val Gln Ser Leu Leu His Asp Ala Gly Val Ala Glu
 165 170 175
 Asn Val Ile Phe Phe Glu Ala His Ser Pro Leu Ala Leu Ser Arg Ala
 180 185 190
 Ala Leu Arg Ser Arg Val Glu Glu Cys Trp Gln Leu Thr Glu Gln Asn
 195 200 205
 Ala Met Tyr Glu Thr Phe Ile Asn Ser Phe Arg Pro Leu Leu Pro Leu
 210 215 220
 Leu Lys Glu Thr Pro Pro Glu Asp Leu Thr Pro Glu Arg Cys Phe Gln
 225 230 235 240
 Ile Gln Leu Leu Leu Ile His Phe Tyr Arg Arg Val Val Leu Lys Asp
 245 250 255
 Pro Leu Leu Pro Glu Glu Leu Leu Pro Ala His Trp Ala Gly Gln Ser
 260 265 270
 Ala Arg Gln Leu Cys Ile Asn Ile Tyr Gln Arg Val Ala Ala Gly Ala
 275 280 285
 Leu Ala Phe Val Ser Glu Lys Gly Glu Thr Ser Val Gly Glu Leu Pro
 290 295 300
 Ala Pro Gly Thr Leu Tyr His Gln Arg Phe Gly Gly Leu Asn Ile Thr
 305 310 315 320

<210> 10187

<211> 205

<212> PRT

<213> Enterobacter cloacae

<400> 10187

Gly Glu Gly Met Pro Val Tyr Gln Ile Asp Gly Leu Thr Pro Val Val
 1 5 10 15
 Pro Glu Glu Ser Tyr Val His Pro Thr Ala Val Leu Ile Gly Asp Val
 20 25 30
 Ile Leu Gly Lys Gly Val Tyr Val Gly Pro Asn Ala Ser Leu Arg Gly
 35 40 45
 Asp Phe Gly Arg Ile Val Val Lys Asp Gly Ala Asn Ile Gln Asp Asn
 50 55 60
 Cys Val Met His Gly Phe Pro Glu Gln Asp Thr Val Val Glu Glu Asp
 65 70 75 80
 Gly His Ile Gly His Ser Ala Ile Leu His Gly Cys Ile Ile Arg Arg

				85					90					95			
Asn	Ala	Leu	Val	Gly	Met	Asn	Ala	Val	Val	Met	Asp	Gly	Ala	Thr	Ile		
			100					105					110				
Gly	Glu	Asn	Ser	Ile	Val	Gly	Ala	Ala	Ala	Phe	Val	Lys	Ala	Lys	Ala		
		115					120					125					
Glu	Met	Pro	Ala	Asn	His	Leu	Ile	Leu	Gly	Ser	Pro	Ala	Lys	Ala	Ile		
		130				135					140						
Arg	Glu	Leu	Ser	Ala	Gln	Glu	Ile	Glu	Trp	Lys	Lys	Gln	Gly	Thr	Arg		
145					150					155					160		
Glu	Tyr	Gln	Val	Leu	Val	Asp	Arg	Cys	Lys	Gln	Thr	Leu	His	Gln	Val		
			165					170						175			
Glu	Pro	Leu	Arg	Glu	Glu	Glu	Pro	Gly	Arg	Lys	Arg	Leu	Val	Phe	Asp		
		180						185					190				
Glu	Asn	Leu	Arg	Pro	Lys	Ser	Ala	Gly	Arg	Asp	Lys						
		195					200					205					

<210> 10188

<211> 516

<212> PRT

<213> Enterobacter cloacae

<400> 10188

Ser	Gly	Val	Asn	Leu	Val	Cys	Arg	His	Ala	Ala	Pro	Arg	Leu	Gly	Thr		
1				5					10				15				
Glu	Arg	Asp	Cys	Arg	His	Gly	Arg	Phe	Thr	Arg	Phe	Cys	Arg	His	Ala		
		20						25				30					
Ala	Asp	Pro	Gln	Lys	Arg	Phe	Pro	Asp	Ala	Gly	Pro	Gly	Gln	Arg	Gly		
		35				40					45						
Gly	Arg	Arg	Pro	Arg	His	Ser	Ser	Arg	Ser	Gly	Lys	Arg	Glu	Gly	Ser		
	50					55				60							
His	Arg	Val	Ser	Arg	Arg	Val	Gln	Pro	Gly	Ala	Ala	Pro	Ala	Phe	Arg		
65					70					75					80		
Pro	Ala	Arg	Cys	Thr	Ser	Ala	Arg	Thr	Ala	Ala	Gln	Asp	Gly	Ala	Thr		
			85					90					95				
Met	Lys	Ile	Ala	Ile	Ile	Gly	Ser	Gly	Ile	Ala	Gly	Leu	Thr	Cys	Ala		
		100				105						110					
Trp	Arg	Leu	Ala	Gly	His	His	Gln	Ile	Thr	Val	Phe	Glu	Ala	Gln	Ala		
		115				120						125					
Thr	Pro	Gly	Gly	His	Thr	Ala	Thr	Val	Asp	Val	Asp	Thr	Pro	Gln	Ser		
	130					135					140						
Thr	Phe	Ala	Ile	Asp	Thr	Gly	Phe	Ile	Val	Tyr	Asn	Asp	Arg	Thr	Tyr		
145					150					155					160		
Pro	Arg	Phe	Met	Gly	Leu	Leu	Ser	Glu	Leu	Gly	Ile	Ser	Gly	Gln	Lys		
			165					170						175			
Thr	Gln	Met	Ser	Phe	Ser	Val	His	Asn	Pro	Gln	Ser	Gly	Leu	Glu	Tyr		
		180						185					190				
Asn	Gly	His	Thr	Leu	Thr	Ser	Leu	Phe	Ala	Gln	Arg	Arg	Asn	Leu	Leu		
		195				200						205					
Asn	Pro	Ala	Phe	Trp	Thr	Leu	Leu	Lys	Glu	Ile	Val	Arg	Phe	Asn	Arg		
	210					215					220						
Leu	Ala	Lys	Gln	Thr	Leu	Arg	Gly	Glu	Val	Asp	Gly	Ser	Ala	Thr	Leu		
225					230					235					240		
Glu	Thr	Phe	Leu	Arg	Gln	His	Arg	Phe	Thr	Pro	Phe	Phe	Ala	Arg	His		
			245					250						255			
Tyr	Ile	Leu	Pro	Met	Gly	Ala	Ala	Ile	Trp	Ser	Ser	Ser	Leu	Gln	Glu		
		260						265					270				
Met	Lys	Arg	Phe	Pro	Leu	Pro	Leu	Phe	Leu	Arg	Phe	Phe	Glu	Asn	His		
		275					280					285					
Gly	Leu	Leu	Asp	Ile	Thr	His	Arg	Pro	Gln	Trp	Tyr	Val	Val	Pro	Gly		
	290					295					300						
Gly	Ser	Arg	Glu	Tyr	Ile	Arg	Ala	Met	Met	Asp	Lys	Leu	Gly	Asp	Arg		

305 310 315 320
 Leu Thr Leu His Leu Asn Ala Pro Val Gln Lys Val Val Arg His Asp
 325 330 335
 Arg Gly Val Asp Ile Glu Arg Glu Gly Val Thr His Thr Phe Asp Gln
 340 345 350
 Val Ile Phe Ala Cys His Ser Ala Gln Ala Leu Ala Met Leu Ala Ser
 355 360 365
 Pro Thr Gln Ala Glu Arg Glu Val Leu Gly Asp Ile Gly Trp Gln Arg
 370 375 380
 Asn Glu Val Val Leu His Ser Asp Pro Arg Trp Leu Pro Val Arg Lys
 385 390 395 400
 Arg Ala Trp Ala Ser Trp Asn Tyr Arg Leu Ser Glu Gln Asp Arg Ala
 405 410 415
 Ser Ala Cys Val Thr Tyr Asn Met Asn Ile Leu Gln Gly Leu Pro Pro
 420 425 430
 Gly Ser Pro Leu Phe Cys Val Thr Leu Asn Pro Glu Thr Pro Val Glu
 435 440 445
 Glu Arg Tyr Val Leu Arg Arg Phe Val Tyr Glu His Pro Leu Phe Asn
 450 455 460
 Pro Gln Ser Trp Gln Ala Gln Ala Arg Arg Gly Glu Ile Asn Gly Arg
 465 470 475 480
 Gln Arg Ser Trp Phe Cys Gly Ala Tyr Trp Tyr Asn Gly Phe His Glu
 485 490 495
 Asp Gly Val Arg Ser Ala Leu Asp Val Val Asn Ala Ile Ala Ala Gly
 500 505 510
 Glu Gly Asn
 515

<210> 10189

<211> 409

<212> PRT

<213> Enterobacter cloacae

<400> 10189

Thr Leu Met Thr Asp Pro Val Phe Ala Leu Glu Pro Asp Ile Pro Arg
 1 5 10 15
 Asn Val Arg Val Ala Arg Trp Leu Leu Phe Arg Leu Leu Asn Gly Leu
 20 25 30
 Arg Gly Gly Ser Leu Thr Leu Arg Glu Gly Ala Gln Thr Phe Gln Phe
 35 40 45
 Gly Asp Ala Ser Ala Ala Leu His Ala Glu Val Gln Val Leu Ala Pro
 50 55 60
 Gly Val Tyr Trp Arg Ile Leu Thr Gly Gly Ser Leu Ala Ala Ala Gln
 65 70 75 80
 Ala Trp Met Asp Gly Asp Trp Glu Thr Pro His Leu Thr Pro Leu Leu
 85 90 95
 Glu Leu Ile Ala Arg Asn Ser Gln Ile Leu Gly Gln Leu Glu Lys Gly
 100 105 110
 Phe Arg Leu Leu Gly Lys Pro Val Glu Arg Leu Arg His Trp Met Arg
 115 120 125
 Arg Asn Ser Arg Ala Gln Ala Arg Glu Asn Ile Ala Ala His Tyr Asp
 130 135 140
 Leu Gly Asn Ala Phe Tyr Ala His Phe Leu Asp Glu Asp Leu Leu Tyr
 145 150 155 160
 Ser Ser Ala Leu Phe Asn Gly Asp Glu Gln Asp Leu Asn Ala Ala Gln
 165 170 175
 Gln Ala Lys Met Ala Arg Leu Cys Asp Gln Leu Ala Leu Thr Ala Asn
 180 185 190
 Asp His Leu Leu Glu Ile Gly Thr Gly Trp Gly Ala Met Ala Glu Tyr
 195 200 205
 Ala Ala Arg His Tyr Gly Cys Arg Val Thr Thr Thr Thr Leu Ser Gln

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      210      215      220
Glu Gln Tyr His Trp Ala Thr Ala Arg Ile Val Arg Ala Gly Leu Gln
225      230      235      240
Asp Arg Val Glu Val Leu Leu Cys Asp Tyr Arg Asp Leu Thr Gly Val
      245      250      255
Tyr Asp Lys Leu Val Ser Val Glu Met Ile Glu Ala Val Gly Gln Arg
      260      265      270
Tyr Leu Pro Thr Phe Phe Arg Thr Cys Gln Ala Arg Leu Arg Pro Gly
      275      280      285
Gly Arg Met Ala Ile Gln Ala Ile Thr Ile Gln Asp Gln Arg Tyr Arg
      290      295      300
Asp Tyr Ser Lys Ser Val Asp Phe Ile Gln Arg Tyr Ile Phe Pro Gly
305      310      315      320
Gly Phe Leu Pro Ser Ile Thr Ala Met Asn Glu Leu Met Thr Arg His
      325      330      335
Thr Asp Phe Val Val Arg Asn Leu Phe Asp Met Gly Pro Asp Tyr Ala
      340      345      350
Arg Thr Leu Ala His Trp Arg Gln Arg Phe Val His Ala Trp Gln Glu
      355      360      365
Ile Glu Lys Leu Gly Phe Asp Asp Arg Phe Arg Arg Met Trp Leu Tyr
      370      375      380
Tyr Leu Gly Tyr Cys Glu Ala Gly Phe Asn Ala Arg Thr Ile Ser Val
385      390      395      400
Val Gln Leu Thr Ala Glu Arg Val
      405

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<210> 10190

<211> 1314

<212> PRT

<213> Enterobacter cloacae

<400> 10190

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Lys Glu Ile Leu Ser Gly Ser Ala Leu Pro Val Asn Ala Met Thr Glu
1      5      10      15
His Gln Lys Leu Thr Phe Pro Met Leu Met Gln Lys Leu Asp Ser Leu
      20      25      30
Met Leu Arg Asp Lys Gln Arg Phe Ala Arg Arg Leu His Gly Val Lys
      35      40      45
Lys Val Lys Asn Pro Asp Ala Gln Gln Ala Ile Tyr Gln Glu Met Ala
      50      55      60
Lys Glu Ile Glu Gln Ala Ala Gly Lys Val Val Leu Arg Glu Ala Ala
      65      70      75      80
Arg Pro Glu Ile Thr Tyr Pro Glu Asn Leu Pro Val Ser Gln Lys Lys
      85      90      95
Gln Asp Ile Leu Glu Ala Val Arg Asp His Gln Val Val Ile Val Ala
      100      105      110
Gly Glu Thr Gly Ser Gly Lys Thr Thr Gln Leu Pro Lys Ile Cys Met
      115      120      125
Glu Leu Gly Arg Gly Leu Lys Gly Leu Ile Gly His Thr Gln Pro Arg
      130      135      140
Arg Leu Ala Ala Arg Thr Val Ala Asn Arg Ile Ala Glu Glu Leu Gln
      145      150      155      160
Thr Glu Pro Gly Gly Cys Ile Gly Tyr Lys Val Arg Phe Ser Asp His
      165      170      175
Val Ser Asp Asn Thr Met Val Lys Leu Met Thr Asp Gly Ile Leu Leu
      180      185      190
Ala Glu Ile Gln Gln Asp Arg Leu Leu Met Gln Tyr Asp Thr Ile Ile
      195      200      205
Ile Asp Glu Ala His Glu Arg Ser Leu Asn Ile Asp Phe Leu Leu Gly
      210      215      220
Tyr Leu Lys Glu Leu Leu Pro Arg Arg Pro Asp Leu Lys Ile Ile Ile

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225					230					235				240
Thr	Ser	Ala	Thr	Ile	Asp	Pro	Glu	Arg	Phe	Ser	Lys	His	Phe	Asn
				245					250					255
Ala	Pro	Ile	Ile	Glu	Val	Ser	Gly	Arg	Thr	Tyr	Pro	Val	Glu	Val
			260					265					270	
Tyr	Arg	Pro	Ile	Val	Glu	Glu	Ala	Asp	Asp	Thr	Glu	Arg	Asp	Gln
		275					280					285		
Gln	Ala	Ile	Phe	Asp	Ala	Val	Asp	Glu	Leu	Gly	Asn	Glu	Ser	Ser
	290					295					300			
Asp	Ile	Leu	Ile	Phe	Met	Ser	Gly	Glu	Arg	Glu	Ile	Arg	Asp	Thr
	305				310					315				320
Asp	Ala	Leu	Ser	Lys	Arg	Asp	Leu	Arg	Tyr	Thr	Glu	Ile	Leu	Pro
				325					330					335
Tyr	Ala	Arg	Leu	Ser	Asn	Ser	Glu	Gln	Asn	Arg	Val	Phe	Gln	Pro
			340					345					350	
Ser	Gly	Arg	Arg	Ile	Val	Leu	Ala	Thr	Asn	Val	Ala	Glu	Thr	Ser
		355					360					365		
Thr	Val	Pro	Gly	Ile	Lys	Tyr	Val	Ile	Asp	Pro	Gly	Thr	Ala	Arg
	370					375					380			
Ser	Arg	Tyr	Ser	Tyr	Arg	Thr	Lys	Val	Gln	Arg	Leu	Pro	Ile	Glu
	385				390					395				400
Val	Ser	Gln	Ala	Ser	Ala	Asn	Gln	Arg	Lys	Gly	Arg	Cys	Gly	Arg
				405					410					415
Ser	Glu	Gly	Ile	Cys	Ile	Arg	Leu	Tyr	Ser	Glu	Asp	Asp	Phe	Leu
		420					425					430		
Arg	Pro	Glu	Phe	Thr	Asp	Pro	Glu	Ile	Leu	Arg	Thr	Asn	Leu	Ala
		435					440					445		
Val	Ile	Leu	Gln	Met	Thr	Ala	Leu	Gly	Leu	Gly	Asp	Ile	Ala	Ala
	450					455				460				
Pro	Phe	Val	Glu	Ala	Pro	Asp	Lys	Arg	Asn	Ile	Gln	Asp	Gly	Val
	465				470					475				480
Leu	Leu	Glu	Glu	Leu	Gly	Ala	Ile	Thr	Thr	Asp	Glu	Gln	Ala	Thr
				485					490					495
Tyr	Lys	Leu	Thr	Pro	Leu	Gly	Arg	Gln	Leu	Ser	Gln	Leu	Pro	Val
		500						505					510	
Pro	Arg	Leu	Ala	Arg	Met	Val	Leu	Glu	Ala	Gln	Lys	His	Gly	Cys
		515					520					525		
Arg	Glu	Ala	Met	Ile	Ile	Thr	Ser	Ala	Leu	Ser	Ile	Gln	Asp	Pro
	530					535					540			
Glu	Arg	Pro	Met	Asp	Lys	Gln	Gln	Ala	Ser	Asp	Glu	Lys	His	Arg
	545				550					555				560
Phe	His	Asp	Lys	Glu	Ser	Asp	Phe	Leu	Ala	Phe	Val	Asn	Leu	Trp
			565						570					575
Tyr	Leu	Gly	Glu	Gln	Gln	Lys	Thr	Leu	Ser	Ser	Asn	Gln	Phe	Arg
		580						585					590	
Gln	Cys	Arg	Val	Asp	Phe	Leu	Asn	Tyr	Leu	Arg	Val	Arg	Glu	Trp
		595					600					605		
Asp	Ile	Tyr	Thr	Gln	Leu	Arg	Gln	Val	Val	Lys	Glu	Leu	Gly	Ile
	610					615					620			
Val	Asn	Ser	Glu	Pro	Ala	Glu	Tyr	Arg	Glu	Ile	His	Ile	Ala	Leu
	625				630					635				640
Thr	Gly	Leu	Leu	Ser	His	Ile	Gly	Met	Lys	Asp	Ala	Asp	Lys	Gln
			645						650					655
Phe	Thr	Gly	Ala	Arg	Asn	Ala	Arg	Phe	Ser	Ile	Phe	Pro	Gly	Ser
		660						665					670	
Leu	Phe	Lys	Lys	Pro	Pro	Lys	Trp	Met	Val	Ala	Glu	Leu	Val	Glu
		675					680					685		
Thr	Ser	Arg	Leu	Trp	Gly	Arg	Ile	Ala	Ala	Arg	Ile	Asp	Pro	Glu
	690					695					700			
Val	Glu	Pro	Val	Ala	Gln	His	Leu	Leu	Lys	Arg	Ser	Tyr	Ser	Glu
	705				710					715				720

His Trp Glu Arg Gly Gln Gly Ala Val Met Ala Thr Glu Lys Val Thr
 725 730 735
 Val Tyr Gly Leu Pro Val Val Ala Ala Arg Lys Val Asn Tyr Ser Gln
 740 745 750
 Ile Asp Pro Ala Leu Ser Arg Glu Leu Phe Ile Arg His Ala Leu Val
 755 760 765
 Glu Gly Asp Trp Gln Thr Arg His Ala Phe Phe Arg Glu Asn Leu Lys
 770 775 780
 Leu Arg Ala Glu Val Glu Glu Leu Glu His Lys Ser Arg Arg Arg Asp
 785 790 795 800
 Ile Leu Val Asp Asp Glu Thr Leu Phe Glu Phe Tyr Asp Gln Arg Ile
 805 810 815
 Ser His Asp Val Ile Ser Ala Arg His Phe Asp Ser Trp Trp Lys Lys
 820 825 830
 Ala Ser Lys Glu Thr Pro Asp Leu Leu Asn Phe Glu Lys Ser Met Leu
 835 840 845
 Ile Lys Glu Gly Ala Glu Ser Val Ser Lys Leu Asp Tyr Pro Asn Phe
 850 855 860
 Trp His Gln Gly Asn Leu Lys Leu Arg Leu Thr Tyr Gln Phe Glu Pro
 865 870 875 880
 Gly Ala Asp Ala Asp Gly Val Thr Val His Ile Pro Leu Pro Leu Leu
 885 890 895
 Asn Gln Val Asp Glu Ser Gly Phe Glu Trp Gln Ile Pro Gly Leu Arg
 900 905 910
 Arg Glu Leu Val Ile Ala Leu Ile Lys Ser Leu Pro Lys Pro Val Arg
 915 920 925
 Arg Asn Phe Val Pro Ala Pro Asn Tyr Ala Glu Ala Phe Leu Gly Arg
 930 935 940
 Val Thr Ser Leu Glu Leu Pro Leu Leu Asp Ala Leu Glu Arg Glu Phe
 945 950 955 960
 Arg Arg Met Thr Gly Thr Thr Ile Asp Arg Asp Asp Trp Asn Trp Asp
 965 970 975
 Gln Val Pro Asp His Leu Lys Ile Thr Phe Arg Val Val Asp Asp Lys
 980 985 990
 Asn Lys Lys Leu Met Glu Gly Arg Ser Leu Ser Glu Leu Lys Asp Ala
 995 1000 1005
 Leu Lys Gly Lys Val Gln Glu Thr Leu Ser Ala Val Ala Asp Asp Gly
 1010 1015 1020
 Ile Glu Gln Ser Gly Leu His Ile Trp Ser Phe Gly Gln Leu Pro Glu
 1025 1030 1035 1040
 Ser Tyr Glu Gln Lys Arg Gly Asn Tyr Lys Val Lys Ala Trp Pro Ala
 1045 1050 1055
 Leu Val Asp Glu Arg Asp Ser Val Ala Ile Lys Leu Phe Asp Asn Pro
 1060 1065 1070
 Gln Glu Gln Gln Gln Met Met Trp Arg Gly Leu Arg Arg Leu Leu Leu
 1075 1080 1085
 Leu Asn Ile Pro Ser Pro Ile Lys Tyr Leu His Glu Lys Leu Pro Asn
 1090 1095 1100
 Lys Ala Lys Leu Gly Leu Tyr Phe Asn Pro Tyr Gly Lys Val Leu Asp
 1105 1110 1115 1120
 Leu Ile Asp Asp Cys Ile Ser Cys Gly Val Asp Lys Leu Ile His Glu
 1125 1130 1135
 Ala Gly Gly Pro Val Trp Thr Glu Glu Gly Phe Ala Gln Leu His Glu
 1140 1145 1150
 Lys Val Arg Ala Glu Leu Asn Asp Thr Val Val Glu Ile Ala Lys Gln
 1155 1160 1165
 Val Glu Gln Ile Leu Thr Ala Val Phe Asn Ile Asn Lys Arg Leu Lys
 1170 1175 1180
 Gly Arg Val Asp Met Thr Met Ala Leu Gly Leu Ser Asp Val Lys Ala
 1185 1190 1195 1200
 Gln Met Ala Gly Leu Val Tyr Arg Gly Phe Val Thr Gly Asn Gly Phe

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<210> 10191
<211> 354
<212> PRT
<213> Enterobacter cloacae
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<400>	10191														
Arg	Asn	Ala	Leu	Ser	Gly	Tyr	Ser	Thr	Met	Lys	Lys	Ile	Gly	Phe	Leu
1				5					10					15	
Ser	Phe	Gly	His	Trp	Thr	Pro	Ser	Pro	Gln	Ser	Gly	Thr	Arg	Thr	Ala
			20					25					30		
Ala	Asp	Thr	Leu	Leu	Gln	Ser	Ile	Asp	Leu	Val	Val	Ala	Ala	Glu	Glu
		35					40					45			
Leu	Gly	Ala	Asp	Gly	Ala	Tyr	Phe	Arg	Val	His	His	Phe	Ala	Arg	Gln
	50					55					60				
Leu	Ser	Ser	Pro	Phe	Pro	Leu	Leu	Ala	Ala	Ile	Gly	Ala	Lys	Thr	Lys
65					70					75					80
Arg	Ile	Glu	Ile	Gly	Thr	Gly	Val	Ile	Asp	Met	Arg	Tyr	Glu	Asn	Pro
				85					90					95	
Leu	Tyr	Met	Ala	Glu	Asp	Ala	Gly	Ala	Ala	Asp	Leu	Ile	Ser	Gly	Gly
			100					105					110		
Arg	Leu	Gln	Leu	Gly	Ile	Ser	Arg	Gly	Ser	Pro	Glu	Gln	Val	Ile	Asp
		115					120					125			
Gly	Trp	Arg	Tyr	Phe	Gly	Tyr	Val	Pro	Gln	Glu	Gly	Glu	Thr	Glu	Ser
	130					135					140				
Asp	Met	Ala	Arg	Arg	His	Thr	Glu	Val	Leu	Leu	Asp	Val	Leu	Arg	Gly
145					150					155					160
Glu	Gly	Phe	Ala	Lys	Pro	Asn	Pro	Gln	Pro	Met	Phe	Pro	Asn	Pro	Pro
				165						170				175	
Gly	Leu	Leu	Arg	Leu	Glu	Pro	His	Ser	Glu	Gly	Leu	Arg	Asp	Arg	Ile
			180					185					190		
Trp	Trp	Gly	Ala	Gly	Ser	Asn	Ala	Thr	Ala	Val	Trp	Ala	Ala	Lys	Leu
		195					200					205			
Gly	Met	Asn	Leu	Gln	Ser	Ser	Thr	Leu	Lys	Asp	Asp	Glu	Thr	Gly	Glu
	210				215						220				
Pro	Phe	His	Ile	Gln	Gln	Ala	Lys	Gln	Ile	Arg	Ala	Tyr	Arg	Gln	Ala
225					230					235					240
Trp	Ala	Glu	Ala	Gly	His	Thr	Arg	Gln	Pro	Arg	Val	Ser	Val	Ser	Arg
				245					250					255	
Ser	Ile	Phe	Ala	Leu	Met	Asp	Glu	Arg	Asp	Arg	Met	Tyr	Phe	Gly	Ser
			260				265						270		
Ser	Arg	Asn	Glu	Ser	Asp	Ser	Val	Gly	Tyr	Leu	Asp	Glu	Lys	Thr	Arg
		275					280					285			
Ala	Ile	Phe	Gly	Arg	Ser	Tyr	Ala	Ala	Glu	Pro	Asp	Lys	Leu	Ile	Glu
	290					295					300				
Gln	Leu	Lys	Lys	Asp	Glu	Ala	Ile	Ala	Glu	Ala	Asp	Thr	Leu	Leu	Leu

305 310 315 320
 Thr Val Pro Asn Gln Leu Gly Val Glu Tyr Asn Ala His Val Ile Glu
 325 330 335
 Ser Ile Leu Lys His Val Ala Pro Glu Met Gly Trp Arg Asp Arg Asn
 340 345 350

Ala

<210> 10192

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 10192

Arg Gln Pro Leu Lys Cys Phe Thr Ile Ala Leu Ser Leu Phe Arg Ser
 1 5 10 15
 Ser Lys Ile Arg Glu Tyr Glu Val Val Ala Asp Ser Gln Pro Gly His
 20 25 30
 Ile Asp Gln Ile Lys Gln Thr Asn Ala Gly Ala Val Tyr Arg Leu Ile
 35 40 45
 Asp Gln Leu Gly Pro Val Ser Arg Ile Asp Leu Ser Arg Leu Ala Gln
 50 55 60
 Leu Ala Pro Ala Ser Ile Thr Lys Ile Val Arg Glu Met Leu Glu Ala
 65 70 75 80
 His Leu Val Gln Glu Thr Glu Ile Gln Glu Pro Gly Ser Arg Gly Arg
 85 90 95
 Pro Ala Val Gly Leu Val Val Glu Thr Glu Ala Trp His Tyr Leu Ser
 100 105 110
 Leu Arg Ile Ser Arg Gly Glu Ile Phe Leu Ala Leu Arg Asp Leu Ser
 115 120 125
 Ser Lys Leu Val Val Glu Asp Arg Leu Glu Leu Pro Leu Asn Ala Glu
 130 135 140
 Gln Pro Leu Leu Asp Ala Ile Leu Thr His Ile Asp Gln Phe Phe Ile
 145 150 155 160
 Arg His Gln Gln Arg Leu Glu Arg Leu Thr Ala Ile Ala Ile Thr Leu
 165 170 175
 Pro Gly Ile Ile Asp Thr Glu Asn Gly Ile Val His Arg Met Pro Phe
 180 185 190
 Tyr Glu Asn Val Lys Glu Met Pro Leu Gly Asp Val Leu Glu Asn His
 195 200 205
 Thr Gly Val Pro Val Tyr Ile Gln His Asp Ile Ser Ala Trp Thr Met
 210 215 220
 Ala Glu Ala Leu Phe Gly Ala Ser Arg Gly Ala Arg Asp Val Ile Gln
 225 230 235 240
 Val Val Ile Asp His Asn Val Gly Ala Gly Val Ile Thr Asp Gly Arg
 245 250 255
 Leu Leu His Ala Gly Ser Ser Ser Leu Val Glu Ile Gly His Thr Gln
 260 265 270
 Val Asp Pro Tyr Gly Lys Arg Cys Tyr Cys Gly Asn His Gly Cys Leu
 275 280 285
 Glu Thr Ile Ala Ser Val Glu Ser Val Leu Glu Leu Ala Gln Val Arg
 290 295 300
 Leu Thr Gln Ser Met Ser Ser Thr Leu His Gly Gln Pro Leu Ser Val
 305 310 315 320
 Glu Ala Leu Cys Ala Ala Ala Arg Gln Gly Asp Leu Leu Ala Lys Asp
 325 330 335
 Ile Ile Thr Gly Val Gly Asn Asn Val Gly Arg Ile Leu Ala Ile Met
 340 345 350
 Val Asn Leu Phe Asn Pro Gln Lys Ile Leu Ile Gly Ser Pro Leu Ser
 355 360 365
 Gln Ala Ala Asp Ile Leu Phe Pro Ala Ile Ser Ala Cys Ile Asn Gln

370		375		380
Gln Ala Leu Pro Ala Tyr Ser Lys Asn Ile Val Val Glu Ser Thr Gln				
385		390		395
Phe Ser Asn Gln Gly Thr Met Ala Gly Ala Ala Leu Val Lys Asp Ala				
	405		410	415
Met Tyr Asn Gly Ser Leu Leu Ile Arg Leu Leu Gln Gly				
	420		425	430

<210> 10193

<211> 233

<212> PRT

<213> Enterobacter cloacae

<400> 10193

Val Met Leu Lys Arg Phe Phe Ile Thr Gly Thr Asp Thr Ser Val Gly				
1	5		10	15
Lys Thr Val Val Ser Arg Ala Leu Leu Gln Ala Leu Ala Ala Ser Gly				
	20		25	30
Lys Arg Val Ala Gly Tyr Lys Pro Val Ala Lys Gly Ser Lys Glu Thr				
	35		40	45
Pro Glu Gly Leu Arg Asn Lys Asp Ala Leu Val Leu Gln Ser Val Ser				
	50		55	60
Ser Leu Glu Leu Pro Tyr Asp Ala Val Asn Pro Ile Ala Leu Ser Glu				
65	70		75	80
Glu Glu Ser Ser Val Ala His Ser Gly Leu Ile Asn Tyr Ser Leu Leu				
	85		90	95
Ser Asp Gly Leu Ala Asn Leu Ser Glu Lys Val Asp His Val Val Val				
	100		105	110
Glu Gly Thr Gly Gly Trp Arg Ser Leu Met Asn Asp Leu Arg Pro Leu				
	115		120	125
Ser Glu Trp Val Val Gln Glu Gln Leu Pro Val Ile Met Val Val Gly				
	130		135	140
Ile Gln Glu Gly Cys Ile Asn His Ala Leu Leu Thr Ala Gln Ala Ile				
145	150		155	160
Ala Asn Asp Gly Leu Pro Leu Ile Gly Trp Val Ala Asn Arg Val Asn				
	165		170	175
Pro Gly Leu Ala His Tyr Ala Glu Ile Ile Asp Val Leu Ser Lys Lys				
	180		185	190
Leu Pro Gly Pro Leu Val Gly Glu Leu Pro Tyr Leu Pro Arg Ala Glu				
	195		200	205
Gln Arg Glu Leu Ala His Tyr Ile Asp Leu Ser Ala Phe Gly Gly Met				
	210		215	220
Leu Ala Val Gly Arg Val Val Ala				
225		230		

<210> 10194

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 10194

Ile Asn Pro His Glu Thr Arg Lys Met Phe Lys Thr Thr Leu Leu Phe				
1	5		10	15
Phe Ala Thr Ala Leu Cys Glu Ile Ile Gly Cys Phe Leu Pro Trp Leu				
	20		25	30
Trp Leu Lys Arg Gly Ala Ser Ala Leu Leu Leu Ile Pro Ala Gly Val				
	35		40	45
Ser Leu Ala Leu Phe Val Trp Leu Leu Thr Leu His Pro Ala Ala Ser				
	50		55	60
Gly Arg Val Tyr Ala Ala Tyr Gly Gly Val Tyr Val Cys Thr Ala Leu				
65	70		75	80

Leu Trp Leu Arg Val Val Asp Gly Val Arg Leu Ser Leu Tyr Asp Trp
 85 90 95
 Ala Gly Ala Leu Ile Ala Leu Cys Gly Met Leu Ile Ile Val Ala Gly
 100 105 110
 Trp Gly Arg Ala
 115

<210> 10195

<211> 418

<212> PRT

<213> Enterobacter cloacae

<400> 10195

Ile Ser Cys Ile Thr Thr Ser Asp Val Arg Lys Trp Ile Met Lys Ile
 1 5 10 15
 Val Gly Ala Glu Val Phe Val Thr Cys Pro Gly Arg Asn Phe Val Thr
 20 25 30
 Leu Lys Ile Thr Thr Asp Glu Gly Ile Val Gly Leu Gly Asp Ala Thr
 35 40 45
 Leu Asn Gly Arg Glu Leu Ser Val Ala Ser Tyr Leu Lys Asp His Leu
 50 55 60
 Cys Pro Gln Leu Ile Gly Arg Asp Ala His Arg Ile Glu Asp Ile Trp
 65 70 75 80
 Gln Phe Phe Tyr Lys Gly Ala Tyr Trp Arg Arg Gly Pro Val Thr Met
 85 90 95
 Ser Ala Ile Ser Ala Val Asp Met Ala Leu Trp Asp Ile Lys Ala Lys
 100 105 110
 Ala Ala Asn Met Pro Leu Tyr Gln Leu Leu Gly Gly Ala Ser Arg Glu
 115 120 125
 Gly Val Met Val Tyr Cys His Thr Thr Gly His Thr Ile Asp Asp Val
 130 135 140
 Leu Glu Asp Tyr Ala Arg His Lys Glu Met Gly Phe Lys Ala Ile Arg
 145 150 155 160
 Val Gln Cys Gly Val Pro Gly Met Lys Thr Thr Tyr Gly Met Ala Lys
 165 170 175
 Gly Lys Gly Leu Ala Tyr Glu Pro Ala Thr Lys Gly Ala Trp Pro Glu
 180 185 190
 Glu Gln Leu Trp Ser Thr Glu Lys Tyr Leu Asp Phe Thr Pro Lys Leu
 195 200 205
 Phe Asp Ala Val Arg Ser Gln Phe Gly Phe Ser Glu His Leu Leu His
 210 215 220
 Asp Met His His Arg Leu Thr Pro Ile Glu Ala Ala Arg Phe Gly Lys
 225 230 235 240
 Ser Ile Glu Asp Tyr Arg Leu Phe Trp Met Glu Asp Pro Thr Pro Ala
 245 250 255
 Glu Asn Gln Glu Cys Phe Arg Leu Ile Arg Gln His Thr Val Thr Pro
 260 265 270
 Ile Ala Val Gly Glu Val Phe Asn Ser Ile Trp Asp Cys Lys Gln Leu
 275 280 285
 Ile Glu Glu Gln Leu Ile Asp Tyr Ile Arg Ala Thr Ile Thr His Ala
 290 295 300
 Gly Gly Ile Thr Gly Met Arg Arg Ile Ala Asp Phe Ala Ser Leu Tyr
 305 310 315 320
 Gln Val Arg Thr Gly Ser His Gly Pro Ser Asp Leu Ser Pro Ile Cys
 325 330 335
 His Ala Ala Ala Leu His Phe Asp Leu Trp Val Pro Asn Phe Gly Val
 340 345 350
 His Glu Tyr Met Gly Tyr Ser Glu His Met Leu Glu Val Phe Pro His
 355 360 365
 Ser Trp Arg Phe Asp Asn Gly Tyr Met His Pro Gly Asp Lys Pro Gly
 370 375 380

Leu Gly Ile Glu Phe Asp Glu Lys Leu Ala Ala Lys Tyr Pro Tyr Asp
 385 390 395 400
 Pro Ala Tyr Leu Pro Val Ala Arg Leu Glu Asp Gly Thr Leu Trp Asn
 405 410 415
 Trp

<210> 10196

<211> 479

<212> PRT

<213> Enterobacter cloacae

<400> 10196

Glu Pro Ala Lys Thr Gly Ser Lys Trp Tyr Ala Ser Tyr Leu Ser Glu
 1 5 10 15
 Ile Ala Ile Met Thr Gln Ala Gln Pro Gln Arg Ser Thr Ser Asp Leu
 20 25 30
 Val Lys Ala Ala Val Ser Gly Trp Leu Gly Thr Ala Leu Glu Phe Met
 35 40 45
 Asp Phe Gln Leu Tyr Ser Leu Gly Ala Ala Leu Val Phe His Glu Ile
 50 55 60
 Phe Phe Pro Glu Gln Ser Ala Ala Met Ala Leu Ile Leu Ala Met Gly
 65 70 75 80
 Thr Tyr Gly Ala Gly Tyr Ile Ala Arg Ile Val Gly Ala Phe Ile Phe
 85 90 95
 Gly Arg Met Gly Asp Arg Ile Gly Arg Lys Lys Val Leu Phe Ile Thr
 100 105 110
 Ile Thr Met Met Gly Ile Cys Thr Thr Leu Ile Gly Val Leu Pro Thr
 115 120 125
 Tyr Ala Gln Ile Gly Ile Phe Ala Pro Val Leu Leu Val Thr Leu Arg
 130 135 140
 Ile Ile Gln Gly Leu Gly Ala Gly Ala Glu Ile Ser Gly Ala Gly Thr
 145 150 155 160
 Met Leu Ala Glu Tyr Ala Pro Lys Gly Lys Arg Gly Ile Ile Ser Ser
 165 170 175
 Leu Val Ala Met Gly Thr Asn Cys Gly Thr Leu Ser Ala Thr Ala Ile
 180 185 190
 Trp Ala Val Met Phe Phe Ala Leu Asp Arg Glu Glu Leu Ile Ala Trp
 195 200 205
 Gly Trp Arg Val Pro Phe Leu Ala Ser Val Val Val Met Ile Phe Ala
 210 215 220
 Ile Trp Leu Arg Met Asn Leu Lys Glu Ser Pro Val Phe Glu Lys Val
 225 230 235 240
 Asn Asp Ala Glu Thr Val Ala Pro Ala Ala Gln Asp Thr Ser Leu
 245 250 255
 Gly Ala Met Phe Lys Ser Lys Ser Phe Trp Leu Ala Thr Gly Leu Arg
 260 265 270
 Phe Gly Gln Ala Gly Asn Ser Gly Leu Ile Gln Thr Phe Leu Ala Gly
 275 280 285
 Tyr Leu Val Gln Thr Leu Leu Phe Asp Lys Ala Ile Pro Thr Asp Ala
 290 295 300
 Leu Met Ile Ser Ser Ile Leu Gly Phe Leu Thr Ile Pro Leu Leu Gly
 305 310 315 320
 Trp Leu Ser Asp Lys Val Gly Arg Arg Leu Pro Tyr Ile Leu Leu Asn
 325 330 335
 Ile Ser Ala Ile Ile Leu Ala Tyr Pro Met Leu Ser Ile Ile Val Asp
 340 345 350
 Lys Ser Tyr Ala Pro Gly Val Ile Met Leu Ser Ile Ile Val Ile His
 355 360 365
 Asn Phe Ala Val Leu Gly Leu Phe Ala Leu Glu Asn Ile Thr Met Ala
 370 375 380

Glu	Met	Phe	Gly	Ser	Arg	Asn	Arg	Phe	Thr	Arg	Met	Ala	Ile	Ser	Lys
385					390					395					400
Glu	Ala	Gly	Gly	Leu	Val	Ala	Val	Gly	Phe	Gly	Pro	Val	Leu	Ala	Gly
				405					410					415	
Ile	Phe	Cys	Asn	Met	Thr	Gly	Ser	Trp	Trp	Pro	Ile	Val	Ala	Met	Leu
			420					425					430		
Val	Ala	Tyr	Ser	Leu	Ile	Gly	Leu	Val	Ser	Ala	Leu	Leu	Met	Pro	Glu
		435					440					445			
Val	Arg	Asp	Arg	Asp	Leu	Ser	Glu	Ala	Glu	Asp	Ala	Ala	Glu	Ala	Pro
	450					455					460				
His	Lys	Glu	Ala	Val	Ala	Tyr	Gly	Ala	Leu	Ser	Ser	Arg	Arg		
465					470					475					

<210> 10197

<211> 492

<212> PRT

<213> Enterobacter cloacae

<400> 10197

Arg	Val	Ser	Ile	Met	Glu	Asn	Gln	Leu	Leu	Gln	Ala	Lys	Ala	Thr	Arg
1				5					10					15	
Pro	Gln	Tyr	Asp	Arg	Asp	Ser	Leu	Lys	Ala	Arg	Ile	Val	His	Leu	Gly
			20					25					30		
Phe	Gly	Ala	Phe	His	Arg	Ala	His	Gln	Ala	Val	Tyr	Thr	Asp	Ile	Leu
		35					40					45			
Ala	Ala	Glu	Gln	Gly	Ser	Asp	Trp	Gly	Tyr	Cys	Glu	Val	Asn	Leu	Ile
		50				55					60				
Gly	Gly	Glu	Gln	Gln	Ile	Ala	Asp	Leu	Lys	Ala	Gln	Asp	Asn	Leu	Tyr
65					70				75					80	
Thr	Val	Ala	Glu	Met	Ser	Ala	Asp	Ala	Trp	Thr	Ala	Arg	Val	Val	Gly
				85					90					95	
Val	Val	Lys	Asn	Ala	Leu	His	Ala	Gln	Val	Asp	Gly	Leu	Glu	Thr	Val
			100					105					110		
Leu	Ala	Ala	Leu	Cys	Glu	Pro	Gln	Val	Ala	Ile	Val	Ser	Leu	Thr	Ile
		115					120					125			
Thr	Glu	Lys	Gly	Tyr	Cys	His	Ser	Pro	Ala	Thr	Gly	Gln	Leu	Met	Phe
	130					135					140				
Asp	His	Pro	Leu	Ile	Val	Ala	Asp	Leu	Gln	Asn	Pro	His	Gln	Pro	Lys
145					150					155					160
Ser	Ala	Pro	Gly	Val	Val	Val	Glu	Ala	Leu	Ala	Arg	Arg	Lys	Ala	Ala
				165					170					175	
Gly	Leu	Pro	Ala	Phe	Ser	Val	Met	Ser	Cys	Asp	Asn	Met	Pro	Glu	Asn
			180					185					190		
Gly	His	Val	Met	Arg	Asn	Val	Thr	Cys	Ala	Tyr	Ala	Arg	Ala	Val	Asp
		195					200					205			
Gly	Glu	Leu	Ala	Asp	Trp	Ile	Glu	Ala	Asn	Val	Thr	Phe	Pro	Ser	Thr
	210					215						220			
Met	Val	Asp	Arg	Ile	Val	Pro	Ala	Val	Thr	Ala	Asp	Thr	Leu	Asp	Lys
225					230					235					240
Ile	Glu	Gln	Leu	Thr	Gly	Val	Arg	Asp	Pro	Ala	Gly	Val	Ala	Cys	Glu
				245						250				255	
Pro	Phe	Arg	Gln	Trp	Val	Val	Glu	Asp	Asn	Phe	Val	Ala	Gly	Arg	Pro
			260					265					270		
Lys	Trp	Glu	Lys	Ala	Gly	Ala	Glu	Leu	Val	Ser	Asp	Val	Ile	Pro	Phe
		275					280					285			
Glu	Glu	Met	Lys	Leu	Arg	Met	Leu	Asn	Gly	Ser	His	Ser	Phe	Leu	Ala
		290				295					300				
Tyr	Leu	Gly	Tyr	Leu	Ala	Gly	Tyr	Gln	His	Ile	Asn	Asp	Cys	Met	Glu
305					310					315					320
Asp	Glu	His	Tyr	Arg	Ala	Ala	Ala	His	Ala	Leu	Met	Leu	Lys	Glu	Gln
				325					330					335	

Ala Pro Thr Leu Lys Val Lys Gly Val Asp Leu Ala His Tyr Ala Asp
 340 345 350
 Leu Leu Ile Ala Arg Tyr Ser Asn Pro Thr Leu Arg His Arg Thr Trp
 355 360 365
 Gln Ile Ala Met Asp Gly Ser Gln Lys Leu Pro Gln Arg Met Leu Asp
 370 375 380
 Ser Val Arg Trp His Leu Val His Gln Lys Pro Phe Pro Leu Leu Ala
 385 390 395 400
 Leu Gly Val Ala Gly Trp Met Arg Tyr Val Gly Gly Val Asp Glu Gln
 405 410 415
 Gly Asn Pro Ile Glu Val Ser Asp Pro Gln Leu Ala Val Ile Gln Ala
 420 425 430
 Ala Val Asn Gly Ser Ala Glu Gly Glu Ser Arg Val Asn Ala Leu Leu
 435 440 445
 Gly Ile Glu Ala Ile Phe Gly Asn Glu Leu Pro Lys Asp Ala Val Phe
 450 455 460
 Val Ala Ser Val Met Gln Ala Tyr Gln Thr Leu Leu Gln Lys Gly Ala
 465 470 475 480
 Lys Ala Thr Val Ala Glu Tyr Ala Thr Arg Leu
 485 490

<210> 10198

<211> 716

<212> PRT

<213> Enterobacter cloacae

<400> 10198

Ala Ala Ile Pro Pro Val Thr Thr Ile Ala Ser Glu Ala Glu Glu Pro
 1 5 10 15
 Pro Val His Asn Asp Lys His Tyr Pro Phe Ile Lys Val Ser Met Thr
 20 25 30
 Ala Leu Ala Leu Leu Val Ala Pro Leu Ala Leu Gln Ala Gln Asp Lys
 35 40 45
 Ala Thr Glu Ala Ser Gln Gly Thr Gln Glu Ser Leu Asn Ile Asp Ala
 50 55 60
 Ala Asp Gln Gln Ala Pro Gly Thr Thr Lys Thr Thr Asp Asp Ala Ser
 65 70 75 80
 Thr Gly Ser Gly Asp Gly Lys Asn Val Ala Ser Ala Ser Gln Pro Ala
 85 90 95
 Thr Pro Leu Val Pro Gly Thr Pro Thr Trp Asp Ser Phe His Gly Gln
 100 105 110
 Leu Asn Ala Gln Lys Tyr Ser Pro Leu Thr Gln Ile Thr Ala Asp Asn
 115 120 125
 Val Gly Lys Leu Thr Lys Val Trp Glu Phe His Thr Gly Asp Val Ser
 130 135 140
 Asp Gly Lys Gly Asp Thr Pro Ala Thr Val Trp Ser Ala Thr Pro Ile
 145 150 155 160
 Phe Ala Asn Asp Thr Leu Tyr Ile Gly Thr Pro Phe Asp Arg Leu Ile
 165 170 175
 Ala Leu Asp Pro Gly Thr Gly Lys Glu Lys Trp His Tyr Asp Thr Lys
 180 185 190
 Ser Ser Arg Lys Ala Leu Thr Gln Pro Val Leu Lys Asn Arg Gly Val
 195 200 205
 Ser Tyr Trp Gln Ala Lys Asn Pro Val Ser Gly Glu Ala Cys Gln Lys
 210 215 220
 Met Val Tyr Met Gly Thr Val Asp Gly Lys Leu Phe Ala Leu Asp Ala
 225 230 235 240
 Asp Ser Gly Lys Pro Cys Ser Gly Phe Ala Asn Asn Gly Val Leu Asp
 245 250 255
 Leu Asn Gln Trp Asn Thr Val Asn Ala Lys Tyr Pro Leu Ser Val Leu
 260 265 270

Gln Pro Pro Thr Val Val Gly Asn His Leu Leu Val Gly Trp Ala Gly
 275 280 285
 Lys Asp Trp Ala Tyr Ala Glu Ala Pro Pro Gly Thr Val Phe Ser Val
 290 295 300
 Asn Ala Gln Thr Gly Lys Leu Glu Trp Thr Phe Glu Ala Ile Pro Ala
 305 310 315 320
 Glu Ile Arg Lys Arg Thr Gly Thr Ala Asn Val Trp Thr His Met Ser
 325 330 335
 Ala Asp Glu Ala Asn Gly Leu Val Tyr Leu Pro Val Ser Ser Pro Ser
 340 345 350
 Pro Asn Tyr Trp Gly Gly Asn Arg Val Asp Ala Ile Pro Leu Gly Thr
 355 360 365
 Ser Thr Thr Ala Leu Asp Ile Asn Thr Gly Lys Val Val Trp Ser Arg
 370 375 380
 Gln Trp Val His His Asp Val Trp Asp Tyr Asp Ile Asn Ser Ala Pro
 385 390 395 400
 Thr Leu Met Asp Ile Thr Val Asp Gly Lys Gln Ile Pro Ala Leu Ile
 405 410 415
 Gln Ala Thr Lys Gln Gly Phe Leu Phe Val Val Asn Arg Leu Thr Gly
 420 425 430
 Glu Asp Val Trp Pro Ile Glu Glu Arg Pro Val Pro Gln Gly Asp Gly
 435 440 445
 Ser Val Gln Gly Glu Val Leu Ser Pro Thr Gln Pro Phe Pro Thr Lys
 450 455 460
 Pro Ala Pro Leu Leu Asp Gln Ser Lys Lys Pro Glu Ile Trp Lys Leu
 465 470 475 480
 Ala Asp Ile Val Gly Gly Gly Gln Cys Ser Arg Leu Trp Asp Asn Leu
 485 490 495
 Thr Tyr Glu Gly Met Tyr Thr Pro Pro Thr Thr Lys Gly Glu Gly Thr
 500 505 510
 Leu Thr Tyr Pro Asp Ser Ala Gly Gly Val Gln Trp Gly Gly Val Ala
 515 520 525
 Phe Asp Pro Gln Lys Gln Ile Ala Ile Val Asn Thr Ser His Ile Val
 530 535 540
 Gln Tyr Val Lys Leu Tyr Ser Arg Glu Asp Tyr Asp Asn Ala Asp Lys
 545 550 555 560
 Asp Ser Gly Asn Glu Ser Gly Phe Ala Pro Gln Glu Gly Ala Pro Tyr
 565 570 575
 Gly Met Arg Leu Leu Val Ala Ser Asn Trp Leu Gly Met Pro Cys Trp
 580 585 590
 Gln Pro Pro Phe Gly Glu Ile Val Ala Leu Asp Met His Thr Gly Asp
 595 600 605
 Val Lys Trp Arg Arg Pro Val Gly Ala Ser Gln Gln Tyr Gly Phe Phe
 610 615 620
 Met Pro Glu Ser Trp Gly Ser Pro Thr Ile Gly Gly Pro Ala Val Thr
 625 630 635 640
 Ala Gly Gly Val Ile Phe Ile Gly Ala Ser Met Asp Ala Lys Val Arg
 645 650 655
 Ala Tyr Ser Val Glu Ser Gly Glu Glu Leu Trp Ser Asp Gln Ala Glu
 660 665 670
 Ala Pro Ala Val Ala Asn Pro Ser Val Tyr Glu Tyr Lys Gly Arg Gln
 675 680 685
 Tyr Val Ala Phe Val Ala Gly Gly Asn Thr Ile Leu Lys Asp Gln Val
 690 695 700
 Gly Asp Gln Val Val Val Tyr Ala Leu Pro Glu
 705 710 715

<210> 10199

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10199

Gly Thr Thr Met Lys Lys Arg Ala Gly Val Leu Thr Val Ala Val Val
 1 5 10 15
 Ala Leu Leu Ser Gly Cys Thr Pro Arg Ile Glu Val Ala Ala Pro Lys
 20 25 30
 Glu Pro Ile Thr Ile Asn Met Asn Val Lys Ile Glu His Glu Ile His
 35 40 45
 Ile Lys Val Asp Lys Asp Val Glu Ala Leu Leu Lys Ser Arg Ser Asp
 50 55 60
 Leu Phe
 65

<210> 10200

<211> 198

<212> PRT

<213> Enterobacter cloacae

<400> 10200

Glu Gly Ala Thr Tyr Arg Thr Pro Arg Ala Asp Ala Gly Arg Asp Ala
 1 5 10 15
 Val Ser Pro Ala Arg Leu Pro Arg Pro Ala Val Val Lys Glu Asp Ala
 20 25 30
 Met Gln Arg Leu Val Asp Ile Ala Pro Ala Gln Ile Pro Gln Ile Trp
 35 40 45
 Ala Leu Leu Ser Gln Ile Pro Asp Pro Glu Val Pro Val Leu Thr Ile
 50 55 60
 Thr Asp Leu Gly Met Val Arg Ser Val Lys Ala Gln Gly Glu Gly Trp
 65 70 75 80
 Val Ile Gly Phe Thr Pro Thr Tyr Ser Gly Cys Pro Ala Thr Glu His
 85 90 95
 Leu Leu Gly Ala Ile Arg Glu Thr Leu Thr Gly Asn Gly Phe Ser Pro
 100 105 110
 Val His Ile Val Leu Gln Leu Glu Pro Ala Trp Thr Thr Asp Trp Met
 115 120 125
 Thr Asp Asp Ala Arg Arg Arg Leu Arg Glu Tyr Gly Ile Ser Pro Pro
 130 135 140
 Val Gly His Ser Cys His Ala His Val Pro Ala Glu Val Ser Cys Pro
 145 150 155 160
 Arg Cys Ala Ser Thr Asp Thr Ser Leu Ile Ser Glu Phe Gly Ser Thr
 165 170 175
 Ala Cys Lys Ala Leu Tyr Arg Cys Asn Thr Cys Arg Glu Pro Phe Asp
 180 185 190
 Tyr Phe Lys Cys Ile
 195

<210> 10201

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 10201

Cys Glu Gly Asp Gly Met Ser Glu Leu Ile Val Thr Arg His Gly Arg
 1 5 10 15
 Val Leu Gln Leu Thr Leu Asn Arg Pro Ala Ala Arg Asn Ala Leu Asn
 20 25 30
 Asn Ala Leu Leu Leu Gln Ile Ala Glu Gln Leu Glu Ala Ala Ala Ala
 35 40 45
 Asp Ala Glu Ile Ala Val Cys Val Met Tyr Gly Asn Glu Arg Cys Phe
 50 55 60
 Ala Ala Gly Ala Asp Leu Asn Glu Met Ala Glu Lys Asp Leu Pro Ala

65 70 75 80
 Thr Leu Asn Asp Ile Arg Pro Gln Leu Trp Ala Arg Ile Asn Ala Phe
 85 90 95
 Thr Lys Pro Leu Ile Ala Ala Val Asn Gly Phe Ala Leu Gly Ala Gly
 100 105 110
 Cys Glu Leu Ala Leu Leu Cys Asp Val Val Ile Ala Gly Asp Asn Ala
 115 120 125
 Arg Phe Gly Leu Pro Glu Ile Thr Ile Gly Ile Met Pro Gly Ala Gly
 130 135 140
 Gly Thr Gln Arg Leu Ile Arg Ser Val Gly Lys Ser Leu Ala Ser Lys
 145 150 155 160
 Met Val Leu Thr Gly Glu Ser Ile Thr Ala Val Gln Ala His Ser Ala
 165 170 175
 Gly Leu Val Ser Asp Val Tyr Pro Ala Ser Leu Thr Leu Glu Tyr Ala
 180 185 190
 Leu Lys Gln Ala Ala Leu Met Ala Arg His Ser Pro Leu Ala Leu Gln
 195 200 205
 Ala Ala Lys Gln Ala Leu Arg Gln Ser Gln Glu Val Pro Leu Gln Ala
 210 215 220
 Gly Leu Ala Gln Glu Arg Gln Leu Phe Ala Leu Leu Ala Ala Thr Asp
 225 230 235 240
 Asp Arg Arg Glu Gly Ile Asn Ala Phe Leu Gln Lys Arg Thr Pro Asp
 245 250 255
 Phe Lys Gly Arg
 260

<210> 10202

<211> 527

<212> PRT

<213> Enterobacter cloacae

<400> 10202

Ser Ser Arg Arg Ser Thr Pro Pro Lys Pro Thr Pro Ser Thr Pro Ser
 1 5 10 15
 Leu Ile Trp Ser Ala Thr Ile Asn Ala Trp Pro Asp Ala Ala Thr Thr
 20 25 30
 Thr Gly Lys Ala Ser Ala Arg Ser Trp Gln Asn Ala Arg Arg Thr Leu
 35 40 45
 Arg Gly Asn Asn Met Val Asn Ile His Thr Val Ala Val Ile Gly Ser
 50 55 60
 Gly Thr Met Gly Ala Gly Ile Ala Glu Val Ala Ala Ser His Gly His
 65 70 75 80
 Pro Val Leu Val Tyr Asp Ile Asp Ala Ala Ala Ile Ser Arg Ala Val
 85 90 95
 Asp Gly Ile Arg Gln Arg Leu Ser Ser Arg Val Ala Arg Gly Lys Leu
 100 105 110
 Ser Ala Asp Ala Gly Glu Gln Ile Leu Ala Arg Leu Thr Pro Val Thr
 115 120 125
 Asn Ile Ser Ala Leu Ala Lys Ala Asp Leu Val Ile Glu Ala Ala Ser
 130 135 140
 Glu Arg Leu Glu Val Lys Lys Ala Leu Phe Thr Gln Leu Ala Glu Val
 145 150 155 160
 Cys Pro Pro Gln Thr Leu Leu Ala Ser Asn Thr Ser Ser Ile Ser Val
 165 170 175
 Thr Ala Ile Ala Ala Glu Ile Asn His Pro Glu Arg Val Ala Gly Leu
 180 185 190
 His Phe Phe Asn Pro Ala Pro Val Met Lys Leu Val Glu Val Val Ser
 195 200 205
 Gly Leu Ala Thr Ser Pro Glu Val Ala Asp Ala Leu Cys Glu Leu Ala
 210 215 220
 Leu Ser Trp Gly Lys Gln Pro Val Arg Cys Gln Ser Thr Pro Gly Phe

225 230 235 240
 Ile Val Asn Arg Val Ala Arg Pro Phe Tyr Ser Glu Ala Trp Arg Ala
 245 250 255
 Leu Glu Glu Gln Val Ala Thr Pro Glu Val Ile Asp Ala Ala Leu Arg
 260 265 270
 Asp Gly Gly Gly Phe Pro Met Gly Pro Leu Glu Leu Thr Asp Met Ile
 275 280 285
 Gly Gln Asp Val Asn Phe Ala Val Thr Cys Ser Val Phe Asn Ala Phe
 290 295 300
 Trp Gln Glu Arg Arg Phe Leu Pro Ser Leu Val Gln Gln Glu Leu Val
 305 310 315 320
 Leu Ala Gly Arg Leu Gly Lys Lys Ser Gly Gln Gly Val Tyr Arg Trp
 325 330 335
 Leu Glu Asp Lys Pro Ala Val Arg Trp Leu Ala Pro Val Ser Asp Ser
 340 345 350
 Phe Asn Pro Met Arg Val Gln Arg Arg Ser Asp Gly Val Thr Glu Ile
 355 360 365
 Asp Asp Leu Leu Leu Ile Glu Thr Gln Gly Glu Thr Ala Gln Ser Leu
 370 375 380
 Ala Leu Arg His Gly Cys Pro Val Val Val Val Asp Arg Ile Glu Arg
 385 390 395 400
 Asp Val Ala Val Ile Ala Ala Ala Pro Gly Asn Pro His Ala Ala Thr
 405 410 415
 Gln Lys Ala Ile Tyr Cys Leu Gln His Gln Gln Lys Arg Val Val Gln
 420 425 430
 Ile Ala Asp Tyr Pro Gly Leu Leu Val Trp Arg Thr Val Ala Met Ile
 435 440 445
 Ala Asn Glu Ala Leu Asp Ala Leu Gln Lys Gly Val Ala Ser Glu Gln
 450 455 460
 Asp Ile Asp Thr Ala Met Arg Leu Gly Val Asn Tyr Pro Cys Gly Pro
 465 470 475 480
 Ile Ala Trp Gly Glu Arg Leu Gly Trp Gln Arg Leu Leu Thr Leu Leu
 485 490 495
 Glu Asn Leu Gln Arg His Tyr Gly Glu Glu Arg Tyr Arg Pro Cys Ser
 500 505 510
 Leu Leu Arg Gln Arg Ala Leu Leu Glu Ser Ser Tyr Glu Ser
 515 520 525

<210> 10203

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 10203

Asn Ser Glu Pro Thr Thr Glu Asn Arg Arg Ser Phe Ser Arg Glu Ile
 1 5 10 15
 Ala Pro His Arg Arg Gln Tyr Asp Arg Ser Leu Met Arg Asp Ala
 20 25 30
 Phe Ile Cys Glu Gly Val Arg Thr Pro Val Gly Arg Tyr Gly Gly Gly
 35 40 45
 Leu Ser Ser Val Arg Ala Asp Asp Leu Gly Ala Val Pro Leu Arg Ala
 50 55 60
 Leu Leu Ala Arg Tyr Pro Gln Leu Asp Leu Glu Arg Ile Asp Asp Val
 65 70 75 80
 Ile Phe Gly Cys Ala Asn Gln Ala Gly Glu Asp Asn Arg Asn Val Ala
 85 90 95
 Arg Met Ser Ser Leu Leu Ala Gly Leu Pro Gln Thr Val Ser Gly Thr
 100 105 110
 Thr Ile Asn Arg Leu Cys Gly Ser Gly Leu Asp Ala Leu Gly Phe Ala
 115 120 125
 Ala Arg Ala Ile Lys Ala Gly Asp Gly Asp Leu Leu Ile Ala Gly Gly

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<210> 10204
<211> 662
<212> PRT
<213> Enterobacter cloacae
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Gly 1	His	Ser	Met	Lys 5	Leu	Thr	Leu	Ile	Ala 10	Lys	His	Leu	Ala	Leu 15	Ala
Gly	Val	Leu	Thr 20	Ser	Leu	Ser	Leu	Ser 25	Ser	Phe	Ala	Glu	Val 30	Gln	Pro
Gln	Asp	Ala 35	Thr	Ala	Thr	Thr	Arg 40	Gln	Val	Asn	Asn	Ala 45	Leu	Tyr	Asn
Lys	Leu 50	Pro	Phe	Ala	Asp	Lys 55	Thr	Asp	Phe	Glu	Asn 60	Ala	His	Lys	Gly
Phe 65	Ile	Ala	Pro	Leu	Pro 70	Gln	Asn	Met	Ile	Lys 75	Gly	Glu	Gln	Gly	Asn 80
Val	Ile	Trp	Asn 85	Pro	Ala	Lys	Tyr	Asp 90	Phe	Val	Lys	Glu	Gly 95	Glu	Lys
Ala	Pro	Asp	Thr 100	Val	Asn	Pro	Ser	Leu 105	Trp	Arg	Gln	Ser	Gln 110	Leu	Ile
Asn	Ile	Gly 115	Gly	Leu	Phe	Lys	Leu 120	Thr	Asp	Gly	Val	Tyr	Gln 125	Ile	Arg
Asn	Leu	Asp	Leu	Ser	Asn	Met	Thr	Ile	Ile	Glu	Gly	Glu	Lys	Gly	Ile

130	135	140
Thr Val Ile Asp Pro Leu	Leu Ser Ala Glu Pro	Ala Lys Glu Ala Leu
145	150	155
Asp Leu Tyr Tyr Ala Asn	Arg Gly Lys Lys Pro	Val Val Ala Val Val
165	170	175
Ile Thr His Ser His Val	Asp His Tyr Gly Gly	Leu Arg Gly Val Val
180	185	190
Asp Glu Ala Asp Val Lys	Ser Gly Lys Val Lys	Ile Tyr Ala Pro Asp
195	200	205
Gly Phe Met Lys Glu Ala	Val Ser Glu Asn Ile	Met Ala Gly Asn Ala
210	215	220
Met Ser Arg Arg Ala Arg	Tyr Met Tyr Gly Asn	Leu Leu Lys Pro Asp
225	230	235
Ala Lys Gly Gln Val Gly	Ala Gly Leu Gly Thr	Thr Thr Ser Ala Gly
245	250	255
Thr Val Thr Leu Ile Pro	Pro Thr Asp Tyr Ile	Thr His Thr Gly Gln
260	265	270
Glu Glu Val Ile Asp Gly	Leu Thr Tyr Asp Phe	Met Met Ala Pro Gly
275	280	285
Ser Glu Ala Pro Ser Glu	Met Leu Trp Tyr Val	Lys Glu Lys Lys Met
290	295	300
Ile Glu Ala Ala Glu Asp	Val Thr His Thr Leu	His Asn Thr Tyr Ser
305	310	315
Leu Arg Gly Ala Lys Ile	Arg Asp Pro Leu Ala	Trp Ser Lys Tyr Ile
325	330	335
Asn Ala Ala Ile Glu Arg	Trp Gly Ala Asp Ala	Glu Val Ile Ile Ala
340	345	350
Gln His His Trp Pro Thr	Trp Gly Asn Glu Asn	Ile Val Lys Leu Met
355	360	365
Lys Gly Gln Arg Asp Met	Tyr Arg Tyr Ile Asn	Asp Gln Thr Leu Arg
370	375	380
Met Ala Asn Lys Gly Leu	Thr Arg Asp Glu Ile	Ala Ala Glu Phe Lys
385	390	395
Leu Pro Glu Ser Leu Glu	Lys Gln Trp Ala Ser	Arg Gly Tyr Tyr Gly
405	410	415
Ser Val Ser His Asp Val	Lys Ala Thr Tyr Val	Phe Tyr Leu Gly Trp
420	425	430
Phe Asp Gly Asn Pro Ala	Thr Leu Asp Glu Leu	Pro Pro Glu Leu Ala
435	440	445
Glu Lys Lys Phe Val Gln	Tyr Met Gly Gly Ala	Asp Ala Ile Met Gln
450	455	460
Lys Ala Lys Ala Asp Tyr	Gln Gln Gly Asn Tyr	Arg Trp Val Ala Gln
465	470	475
Val Val Ser Lys Val Val	Phe Ala Asp Pro Asn	Asn Gln Ala Ala Arg
485	490	495
Asn Leu Glu Ala Asp Ala	Leu Glu Gln Leu Gly	Tyr Gln Ala Glu Ala
500	505	510
Gly Thr Trp Arg Asn Phe	Tyr Leu Thr Gly Ala	Gln Glu Leu Arg Asn
515	520	525
Gly Val Lys Lys Leu Pro	Thr Pro Asn Thr Ala	Ser Pro Asp Thr Val
530	535	540
Arg Ala Met Thr Pro Glu	Met Phe Phe Asp Tyr	Leu Gly Val His Ile
545	550	555
Asn Gly Val Arg Ala Gly	Asn Ala Lys Ala Val	Phe Asn Val Asp Leu
565	570	575
Gly Lys Asp Gly Lys Tyr	Lys Leu Glu Leu Glu	Asn Gly Val Leu
580	585	590
Asn His Thr Ala Asn Ala	Gln Ala Lys Asp Ala	Asp Ala Thr Ile Thr
595	600	605
Leu Asp Arg Thr Thr Leu	Asn Asn Ile Ile Leu	Lys Lys Glu Thr Leu
610	615	620

Lys Gln Ala Met Asp Lys Gly Asp Val Lys Val Ser Gly Asn Gly Ala
 625 630 635 640
 Lys Leu Glu Glu Met Leu Ser Tyr Met Asp Thr Phe Asp Phe Trp Phe
 645 650 655
 Asn Ile Val Thr Pro
 660

<210> 10205

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 10205

Cys Ala Val Ala Ala Gly Arg Ser Leu Cys Gly His Leu Asp Asp Ala
 1 5 10 15
 Leu Val Ala Pro Ala Tyr Cys Pro Gly Cys Ser Ala Thr Ala Ala Gly
 20 25 30
 Leu Leu Arg Gly Arg His Ala Arg Arg Ser His Cys Ser Pro Ala Gly
 35 40 45
 Leu Leu Arg Cys Arg Arg Asp Leu Arg Thr Ser Pro Asp Thr Arg
 50 55 60
 Leu Gly Arg Thr Arg Arg Glu Ala Glu Ser Glu Ile Met Lys Thr Val
 65 70 75 80
 Leu Ile Thr Gly Ala Ser Ser Gly Ile Gly Ala Gly Leu Ala Lys Ser
 85 90 95
 Phe Ala Asp Asp Gly Tyr Arg Val Ile Ala Cys Gly Arg Asp Ala Gln
 100 105 110
 Arg Leu Ala Val His Gln His Ser Pro Asn Ile Thr Val Arg Leu
 115 120 125
 Phe Asp Met Thr Asp Arg Asp Ala Cys Arg Gln Ala Leu Ala Asp Cys
 130 135 140
 Ala Ala Asp Thr Val Ile Leu Cys Ala Gly Thr Cys Glu Tyr Leu Asp
 145 150 155 160
 Arg Gly Glu Val Asp Ala Glu Leu Val Ala Arg Val Met Thr Thr Asn
 165 170 175
 Phe Met Gly Pro Val Asn Cys Leu Ala Leu Gln Pro Gln Leu Val
 180 185 190
 Ser Gly Asn Arg Val Val Leu Val Ser Ser Met Ala His Trp Leu His
 195 200 205
 Phe Pro Arg Ala Glu Ala Tyr Gly Ala Ser Lys Ala Ala Leu Thr Trp
 210 215 220
 Phe Ala Asp Thr Leu Arg Leu Asp Trp Glu Pro Lys Gly Ile Ala Val
 225 230 235 240
 Thr Val Val Ser Pro Gly Phe Val Asp Thr Pro Leu Thr Arg Lys Asn
 245 250 255
 Asp Phe Pro Met Pro Gly Arg Val Ser Val Gly Asp Ala Val His Ala
 260 265 270
 Ile Arg Arg Gly Leu Ala Lys Gly Lys Asp His Ile Ala Phe Pro Ala
 275 280 285
 Gly Phe Ser Leu Ala Leu Arg Leu Leu Ser Gly Leu Pro Asp Val Leu
 290 295 300
 Gln Arg Ala Leu Leu Arg Arg Met Val Arg Pro
 305 310 315

<210> 10206

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 10206

Thr Leu Ser Arg Pro Gly Arg Ala Thr Glu Met Asn Ser Cys Leu Tyr

1		5		10		15
His	Gly	Thr	Leu	Arg	His	Arg
		20		25		30
Thr	Tyr	Ser	Val	Phe	Met	Ala
		35		40		45
Leu	Pro	Ser	Val	Gly	Val	Arg
		50		55		60
Tyr	Asp	Ala	Asp	Tyr	Pro	Leu
65				70		75
Glu	Arg	Leu	Glu	Asn	Leu	Thr
				85		90
Leu	Leu	Thr	Gln	Leu	Arg	Tyr
				100		105
Phe	Tyr	Tyr	Cys	Tyr	Asp	Gly
				115		120
Glu	Val	Arg	Asn	Thr	Pro	Trp
				130		135
Gly	Arg	Asp	Ala	Pro	Pro	Thr
145				150		155
Asn	Pro	Met	Asp	Met	Val	Tyr
				165		170
Thr	Leu	Arg	Met	His	Ile	Glu
				180		185
Ala	Thr	Leu	Thr	Leu	Arg	Arg
				195		200
Ser	Leu	Leu	Ala	Arg	Ile	Pro
				210		215
Ile	Tyr	Trp	Gln	Ala	Leu	Arg
225				230		235
Asn	His	Pro	Leu	Ser	Arg	Ser
				245		250

<210> 10207

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 10207

Ser	Leu	Leu	Asp	Ala	Gly	Gly	Ala	Val	Ser	Arg	Ala	Gly	Ala	Gly	His
1				5					10					15	
Leu	Asp	Arg	Ala	Gly	Gly	Ala	Cys	Leu	Ala	Val	Ile	Thr	Ala	Ile	
			20					25					30		
Pro	Gly	Ile	Arg	Pro	Cys	Ala	Gly	Gly	Val	Gly	Cys	Ala	Ala	Gly	
			35				40					45			
Pro	Leu	Gly	Ala	Asp	Gly	Ala	Asp	Cys	Val	His	Arg	Arg	Val	Pro	
			50			55				60					
Ala	Ala	Met	Asp	Gly	Gly	Ala	Val	Ala	Asn	Val	Cys	His	Arg	Leu	
65				70					75					80	
Ala	Pro	Asp	Pro	His	Asp	His	Leu	Ala	Arg	Met	Val	Ala	Asp	Gly	
				85					90					95	
Gly	Asp	Ser	Gly	Arg	Thr	Gly	Ser	Leu	Pro	Asp	Arg	Arg	Ala	Ser	
			100					105					110		
Gly	His	Tyr	Val	Ser	Gly	Ala	Asp	Leu	Tyr	Arg	Arg	Gln	Leu	Asp	
			115				120					125			
Pro	Arg	Leu	Ala	Gly	Ala	Asp	Ala	Val	Phe	Pro	Pro	Val	Asp	Gly	
			130			135						140			
Thr	Thr	Met	Arg	Asn	Leu	Val	Leu	Met	Leu	Ala	Leu	Ser	Val	Phe	
145				150					155					160	
Cys	Thr	Val	Gln	Ala	Ala	Asp	Trp	Leu	Ser	Trp	Arg	Lys	Val	Gly	
			165					170						175	
Ala	Thr	Leu	Thr	Trp	Gly	Pro	Phe	Ile	Val	Tyr	Thr	Ser	Gln	Leu	

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      180      185      190
Thr Pro Asp Gly Ser Tyr Thr Gly Leu Asp Gly Asp Asn Ala Leu Ile
      195      200      205
Ile Thr Tyr Ala Arg Asp Ile Asp Gly Asp Asp Leu Val Glu Ala Thr
      210      215      220
Arg Asp Gln Trp Gln Ala Gln Gly Ile Leu Gln Gln Glu Pro Gln Ser
      225      230      235      240
Glu Ala Trp Leu Arg Met Leu Ser Thr Leu Trp Pro Asp Val Thr Pro
      245      250      255
Gly Thr Gln Leu Ala Phe Val Val Asn Asn Gly Gln Gly Gln Phe Trp
      260      265      270
Tyr Arg Pro Thr Ala Ser Gln Lys Phe Thr Pro Leu Gly Pro Arg
      275      280      285
Gln Thr Ala Ala Phe Ser Ser Arg Phe Leu Ala Ile Trp Leu Asp Pro
      290      295      300
Arg Thr Glu Tyr Pro Glu Leu Arg Gln Gln Leu Thr Gly Gly Ala Gln
      305      310      315      320

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<210> 10208
<211> 182
<212> PRT
<213> Enterobacter cloacae

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<400> 10208
Thr Asn Met Thr Lys Leu Thr Leu Gln Glu Gln Met Leu Lys Ala Gly
1      5      10      15
Leu Val Ser Ser Lys Lys Met Ala Lys Val Gln Arg Thr Ala Lys Lys
      20      25      30
Ser Arg Val Gln Ala Arg Glu Ala Arg Glu Ala Val Glu Glu Asn Lys
      35      40      45
Lys Ala Gln Leu Glu Arg Asp Lys Gln Leu Ser Glu Gln Gln Lys Gln
      50      55      60
Ala Val Leu Ala Lys Glu Phe Arg Ala Gln Val Lys Gln Leu Ile Glu
      65      70      75      80
Met Asn Arg Ile Thr Val Ala Lys Gly Asn Ile Thr Phe Asn Phe Thr
      85      90      95
Asp Gly Asn Leu Ile Lys Lys Ile Glu Val Asp Lys Gln Thr Gln Thr
      100      105      110
Gln Leu Ile Asn Gly Arg Leu Ala Ile Ala Arg Leu Val Ile Asn Ala
      115      120      125
Lys Gly Asp Cys Asp Tyr Ala Ile Ile Pro Ala Val Val Ala Asp Lys
      130      135      140
Ile Ala Gln Arg Asp Ala Asp Ser Ile Val Leu Asn Ser Ala Leu Ser
      145      150      155      160
Gln Glu Glu Gln Asp Glu Asp Asp Pro Tyr Ala Asp Phe Lys Ile Pro
      165      170      175
Asp Asp Leu Met Trp
      180

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<210> 10209
<211> 282
<212> PRT
<213> Enterobacter cloacae

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<400> 10209
Arg Ala Glu Arg Gly Ile Ile Asp Gly Ser Val Cys Cys Lys Glu Val
1      5      10      15
Thr Met Thr Met Ala Leu Phe Pro Cys Leu Pro Gly Pro Thr Leu Asp
      20      25      30

```

Ala Val Asn Thr Val Gly Ala Trp Leu Ala Gln Asp Asp Tyr Gln Asp
 35 40 45
 Asn Gln Pro Val Asp Leu Val Ile Leu Ala Gly Asn Ala Val Val Pro
 50 55 60
 Ala Ile Asp Ala Ala Cys Lys Asn Ala Ala Glu Gln Gly Val Pro Leu
 65 70 75 80
 Ile Ile Ser Gly Gly Ile Gly His Ser Thr Thr Phe Leu Tyr Ala Ala
 85 90 95
 Ile Ala Lys His Pro Arg Tyr Asn Arg Ile Pro Thr Thr Gly Arg Ala
 100 105 110
 Glu Ala Ala Ile Leu Ala Asp Ile Ala Arg Glu Phe Trp Asn Ile Pro
 115 120 125
 Ala Glu His Leu His Val Glu Asp Gln Ser Thr Asn Cys Gly Glu Asn
 130 135 140
 Ala Arg Phe Ser Arg Ala Leu Met Lys Gln Ser Gly Leu Asn Ala Ala
 145 150 155 160
 Arg Val Leu Val Val Gln Asp Pro Thr Met Gln Arg Arg Thr Met Ala
 165 170 175
 Thr Phe Ala Arg Val Cys Arg Asp Glu Ala Ala Ala Pro Ala Trp Val
 180 185 190
 Ser His Pro Gly Leu Thr Pro Val Leu Gln Asn Ser Asp Asp Gly Leu
 195 200 205
 Val Phe Ser Gly Pro Ala Glu Gly Leu Trp Pro Val Glu Arg Tyr Leu
 210 215 220
 Ser Leu Val Leu Gly Glu Phe Pro Arg Leu Arg Asp Asp Ile Asn Gly
 225 230 235 240
 Tyr Gly Pro Ala Gly Arg Asp Phe Ile Ala His Val Asp Ile Pro Ala
 245 250 255
 Asp Val Asp Ala Ala Trp Gln Ile Leu Arg Asn Asp Val Ile Leu Thr
 260 265 270
 Asp Ala Leu Val Ser Arg Ser Leu Leu
 275 280

<210> 10210

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 10210

Asn Met Ser His Arg Lys Trp Asp Gly Ala Ile Ala Met Arg Asn Leu
 1 5 10 15
 Ala Leu Trp Tyr Arg Arg Phe Gly Glu Pro Glu Ser Val Leu Gln Ala
 20 25 30
 Glu Thr Thr Pro Leu Ser Pro Arg Gln Pro Gly Glu Ile Arg Val Arg
 35 40 45
 Met Leu Phe Ser Pro Val Asn Ala Ser Asp Leu Ile Pro Ile Thr Gly
 50 55 60
 Ala Tyr Arg His Arg Thr Pro Leu Pro Ala Ile Ala Gly Tyr Glu Gly
 65 70 75 80
 Val Gly Ile Val Thr Glu Thr Pro Ala Ala Tyr Pro Ala Leu Leu Gly
 85 90 95
 Lys Arg Val Leu Pro Leu Arg Gly Gln Gly Thr Trp Gln Arg Tyr Val
 100 105 110
 Asp Cys Pro Ala Ala Tyr Ala Val Pro Val Pro Asp Asp Val Asp Ser
 115 120 125
 Leu Leu Ala Ala Arg Ala Tyr Ile Asn Pro Leu Ala Ala Gln Met Met
 130 135 140
 Leu Asp Arg Tyr Pro Pro Val Gly Lys Thr Val Leu Leu Thr Ala Ala
 145 150 155 160
 Gly Ser Asp Cys Ala Val Leu Leu Gly Gln Trp Ala Arg Gln Ala Gly
 165 170 175

Ala Glu Ala Val Tyr Gly Ile His Arg Ser Pro Val His Ala Gln Arg
 180 185 190
 Leu Ala Glu Lys Gly Ile Val Pro Ile Ala Gln His Asp Met Ala Ala
 195 200 205
 Val Asn Ala Ala Ala Arg Ala Asp Val Val Tyr Asp Ala Thr Gly
 210 215 220
 Gly Ser Leu Ala Glu Thr Ile Leu Ser Val Met Pro Glu Thr Gly Thr
 225 230 235 240
 Phe Val Cys Tyr Gly Leu Leu Ser Gly Gln Thr Phe Arg Gln Gln Arg
 245 250 255
 Pro Leu Pro Arg Val Ala Trp Phe His Ile Arg Asn Tyr Leu Asp Ala
 260 265 270
 Leu Ser Ala Glu Ala Trp Gln Ala Glu Phe Arg Arg Ile Trp Pro Lys
 275 280 285
 Leu Arg Ala Ser Gln Cys Ser Asp Val Thr Leu Tyr Pro Leu Ser Glu
 290 295 300
 Trp Gln Arg Ala Val Gly Asn Tyr Arg Glu Ala Gly Arg Thr Gly Lys
 305 310 315 320
 Pro Met Leu Ser Met Asp Asn
 325

<210> 10211

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 10211

Phe Pro Ile Phe Trp Phe Ala Val Arg Ser Glu Pro Arg Trp Ile Ile
 1 5 10 15
 Phe Ser Ser Arg Arg Lys Asn Met Phe Tyr Trp Ile Leu Leu Ala Leu
 20 25 30
 Ala Ile Val Ala Glu Ile Thr Gly Thr Leu Ser Met Lys Trp Ala Ser
 35 40 45
 Val Ser Asp Gly Ser Thr Gly Phe Ile Leu Met Leu Val Met Ile Thr
 50 55 60
 Leu Ser Tyr Ile Phe Leu Ser Phe Ala Val Lys Lys Ile Ala Leu Gly
 65 70 75 80
 Val Ala Tyr Ala Leu Trp Glu Gly Val Gly Ile Leu Leu Ile Thr Leu
 85 90 95
 Phe Ser Val Met Leu Phe Asp Glu Thr Leu Thr Thr Met Lys Ile Ala
 100 105 110
 Gly Leu Thr Thr Leu Val Ala Gly Ile Val Leu Ile Lys Ser Gly Thr
 115 120 125
 Arg Lys Pro Ala Lys Gln Gln Lys Glu Gln Thr His Ala Ala Val
 130 135 140

<210> 10212

<211> 152

<212> PRT

<213> Enterobacter cloacae

<400> 10212

Met Phe Ser Phe Asp Ala Gly Val Arg Leu Gly Pro Asp Asp Cys Arg
 1 5 10 15
 Ala His His Ala Arg Tyr Gly Asp Gly Cys Val Asp Ala Leu Ala His
 20 25 30
 Phe Arg Arg Tyr Gly Phe Thr Gln Thr Pro Ala Asp Leu Asp Ala His
 35 40 45
 Pro Cys Ile Ala Tyr Gln Phe Ala Asp Gly Asn His Tyr Gln Trp Glu
 50 55 60
 Leu Val Gln Asp Gly Lys Arg Val Thr His Arg Pro Glu Gly Gln Trp

65		70		75		80									
Ala	Phe	Ser	Asp	Ser	Tyr	Met	Glu	Ala	Glu	Ala	Ala	Arg	Leu	Gly	Leu
				85					90					95	
Gly	Leu	Ala	Tyr	Val	Pro	Val	Glu	Leu	Met	Gly	Asp	Asp	Pro	Glu	Arg
			100					105					110		
Gly	Thr	Leu	Ile	Arg	Val	Leu	Gln	Arg	Tyr	Ser	Leu	Arg	Met	Asp	Gly
		115					120					125			
Leu	Tyr	Leu	Tyr	Tyr	Pro	His	Arg	Asn	Val	Ser	Pro	Ala	Leu	Arg	Ala
	130					135					140				
Val	Ile	Asp	Thr	Leu	Lys	Ile									
145					150										

<210> 10213

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 10213

Pro	Phe	Ile	Gly	Lys	Gly	Val	Arg	Leu	Met	Tyr	Lys	Lys	Ile	Leu	Met
1				5					10					15	
Pro	Val	Asp	Val	Phe	Glu	Met	Asp	Leu	Ser	Asp	Lys	Ala	Val	Arg	His
			20					25					30		
Ala	Val	Asn	Leu	Ala	Lys	Ala	Glu	Gly	Ala	Thr	Ile	Thr	Leu	Val	Asn
		35					40					45			
Ile	Leu	Pro	Asn	Ser	Ser	Arg	Ser	Leu	Leu	Arg	Gly	Phe	Asn	Ala	Asp
	50					55					60				
Ile	Lys	Lys	Phe	Glu	Glu	Tyr	Met	Thr	Ala	Glu	Ser	Asp	Lys	Lys	Met
65					70				75					80	
Lys	Ala	Leu	Lys	Arg	Leu	Phe	Asp	Met	Ser	Pro	Glu	Asn	Ile	Asp	Cys
				85					90					95	
Glu	Val	Arg	Phe	Gly	Asn	Val	Arg	Asp	Glu	Ile	Ile	Lys	Leu	Ser	Lys
			100					105					110		
Glu	Gly	Lys	Tyr	Asp	Val	Ile	Val	Ile	Gly	Ser	Arg	Asn	Pro	Ser	Met
		115					120					125			
Thr	Thr	His	Leu	Leu	Gly	Ser	Asn	Ala	Glu	Thr	Ile	Leu	Arg	Tyr	Ala
	130					135					140				
Thr	Ile	Pro	Val	Leu	Val	Val	Arg								
145					150										

<210> 10214

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10214

Glu	Val	Lys	Met	Lys	Val	Asp	Ala	Leu	Thr	Gln	Lys	Ala	Glu	Glu	Glu
1				5					10					15	
Ile	Ser	Ala	Leu	Ile	Ala	Lys	Lys	Ile	Ala	Glu	Leu	Arg	Lys	Lys	Thr
			20					25					30		
Gly	Gln	Glu	Val	Ser	Glu	Ile	Glu	Phe	Ile	Ala	Arg	Glu	Ala	Met	Thr
		35					40					45			
Gly	Leu	Glu	Gly	Tyr	Glu	Val	Lys	Ile	Lys	Leu	Leu				
	50					55					60				

<210> 10215

<211> 882

<212> PRT

<213> Enterobacter cloacae

<400> 10215

Leu	Pro	Met	Lys	Gly	Lys	Tyr	Lys	Ala	Ala	Ile	Ala	Leu	Leu	Leu	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1		5		10		15
Leu	Leu	Leu	Val	Pro	Leu	Thr
		20			25	
Pro	Thr	Leu	Ala	Gly	Ile	Trp
		35			40	
Glu	Glu	Ser	Pro	Arg	Leu	Thr
		50			55	
Arg	Tyr	Leu	Val	Glu	Glu	Cys
		65			70	
Leu	Ser	His	Pro	Ser	Arg	Trp
				85		
Asn	Ser	Val	Cys	Leu	Ser	Lys
		100				
Ala	Pro	Lys	Thr	Leu	Ala	Gln
		115				
Leu	Thr	Ile	His	Arg	Phe	Thr
		130				
Glu	Leu	His	Ala	Ser	Leu	Thr
		145				
Gly	Glu	Gln	Val	Ser	Ile	Lys
				165		
Ile	Ser	Gln	Phe	Asp	Val	Gln
				180		
Leu	Ile	Gly	Glu	Phe	Thr	Leu
		195				
Lys	Gly	His	Thr	Val	Ala	Thr
		210				
Val	Asp	Ala	Asp	Leu	Asp	Trp
		225				
Met	Ala	Arg	Asp	Asn	Pro	Asp
				245		
Thr	Ala	Gln	Gln	Leu	Thr	Ile
				260		
Ser	Gly	Met	Pro	Met	Ser	Gly
		275				
Gln	Gln	Gly	Leu	Glu	Lys	Ala
		290				
Thr	Gln	Gly	Asp	Ala	Gly	Lys
		305				
Gly	Ser	Leu	Ser	Met	Glu	Asn
				325		
Glu	Ala	Lys	Gln	Asn	Asp	Leu
				340		
Leu	Thr	Gly	Ser	Leu	Tyr	Asp
		355				
Leu	Leu	Arg	Ser	Arg	Gly	Arg
		370				
Ile	Arg	Trp	Pro	Leu	Ala	Gly
		385				
Gly	Arg	Leu	Gln	Ala	Ile	Leu
				405		
Phe	Glu	Leu	His	Leu	Asp	Gly
				420		
Gly	Leu	Trp	Gln	Trp	Arg	Tyr
		435				
Asn	Ala	Arg	Trp	Asp	Val	Arg
		450				
Ile	Glu	Leu	Thr	Asp	Leu	Ser
		465				
Thr	Met	Leu	Val	Ser	Lys	Pro
				485		

Trp Ser Arg Asp Pro Asp Asn Pro Thr Phe Ser Gly Ala Leu Ala Leu
 500 505 510
 Asn Ala Gly Gln Thr Ser Phe Ser Gly Gly Ser Val Leu Pro Pro Ser
 515 520 525
 Val Leu Thr Phe Ser Val Asp Gly Thr Asp Pro Thr Val Phe Gln Phe
 530 535 540
 Lys Gly Asn Leu His Ala Asp Asp Ile Gly Pro Val Gln Val Asn Gly
 545 550 555 560
 Arg Trp Asp Gly Glu Arg Leu Arg Gly Lys Ala Trp Trp Pro Lys Gln
 565 570 575
 Ser Leu Thr Val Phe Gln Pro Leu Ile Pro Pro Asp Trp Lys Met Thr
 580 585 590
 Leu Arg Gly Gly Glu Met Tyr Ala Gln Val Ala Phe Ser Ala Ala Ser
 595 600 605
 Asp Gln Gly Phe Glu Ala Gly Gly His Gly Val Leu Lys Ala Gly Ser
 610 615 620
 Ala Trp Met Pro Asp Asn Glu Ile Asn Gly Ala Asp Phe Val Leu Pro
 625 630 635 640
 Phe Arg Leu Ser Gln Asp Thr Trp Ser Leu Gly Thr Arg Gly Pro Val
 645 650 655
 Thr Leu Arg Ile Asp Glu Val Lys Asn Leu Val Thr Ala Arg Asn Ile
 660 665 670
 Thr Ala Asp Leu Gln Gly Asp Tyr Pro Trp Thr Glu Ala Asn Pro Leu
 675 680 685
 Leu Leu Thr Asn Val Lys Val Glu Ala Leu Gly Gly Lys Ile Thr Met
 690 695 700
 Gln Gln Leu Arg Met Pro Gln His Asp Pro Ala Leu Leu Arg Val Asp
 705 710 715 720
 Asn Ile Ser Ser Ser Glu Leu Ile Ser Ala Val Asn Pro Lys Gln Phe
 725 730 735
 Ala Met Ser Gly Pro Val Ser Gly Ala Leu Pro Phe Trp Leu Asp Asn
 740 745 750
 Glu Lys Trp Ile Ile Lys Asp Gly Trp Leu Thr Asn Pro Gly Pro Met
 755 760 765
 Thr Leu Arg Ile Asp Gln Asp Thr Ala Asp Ala Ile Val Lys Asp Asn
 770 775 780
 Val Val Ala Gly Ala Ala Ile Asn Trp Leu Arg Tyr Met Glu Ile Ser
 785 790 795 800
 Gln Ser Trp Thr Lys Leu Asn Val Asp Asn Leu Gly Val Leu Thr Met
 805 810 815
 Gln Ala Ala Ile Lys Gly Thr Ser Arg Val Glu Gly Lys Ser Ser Phe
 820 825 830
 Val Asn Leu Asn Tyr Thr His Glu Glu Asn Ile Phe Thr Leu Trp Arg
 835 840 845
 Ser Leu Arg Phe Gly Asp Asn Leu Gln Thr Trp Phe Glu Gln His Ala
 850 855 860
 Ala Ile Pro Leu Leu Arg Gly Ser Thr Gly Lys Glu Ser Glu Glu Gln
 865 870 875 880
 Gln

<210> 10216

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 10216

Asn Pro Ala Ala Ile Cys Ser Glu Asp Ala Met Lys Arg Leu Ala Leu
 1 5 10 15
 Met Leu Leu Ala Leu Gly Met Asn Val His Ala Ala Thr Leu Thr Leu
 20 25 30

```

Asn Asp Ala Arg Ala Gln Gly Arg Val Gly Glu Thr Leu Ser Gly Tyr
   35           40           45
Leu Ala Pro Val Gln His Asp Ala Glu Thr Leu Ala Leu Val Ser Arg
   50           55           60
Ile Asn Ala Ala Arg Thr Glu Ser Tyr Gln Gln Leu Ala Asp Ser Asn
   65           70           75           80
Asn Leu Pro Val Asp Glu Val Ala Lys Met Ala Gly Gln Lys Leu Val
           85           90           95
Ala Arg Ala Gln Pro Gly Glu Tyr Val Lys Gly Ile Asn Gly Lys Trp
           100           105           110
Leu Lys Lys
           115

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<210> 10217

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 10217

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Trp Tyr Arg Ala Tyr Val Arg Leu Gly Met Asn Asn Val Ser Ala Tyr
1           5           10           15
Ala Leu Cys Leu Gly Asp Asn Gly Leu Val Leu Ser Gln Arg Leu Gly
           20           25           30
Ala Trp Cys Gly His Ala Pro Glu Leu Glu Ile Asp Leu Ala Leu Ala
           35           40           45
Asn Ile Gly Leu Asp Leu Leu Gly Gln Ala Arg Asn Phe Leu Thr Tyr
           50           55           60
Ala Ala Glu Arg Glu Gly Lys Gly Asp Glu Asp Thr Leu Ala Tyr Gly
           65           70           75           80
Arg Asp Glu Arg Gln Phe Arg Asn Leu Leu Val Glu Gln Pro Asn
           85           90           95
Gly Ser Phe Ala Asp Thr Ile Ala Arg Gln Tyr Leu Met Asp Ala Trp
           100           105           110
Asn Val Ala Leu Tyr Glu Arg Leu Ile His Ser Ser Asp Ser Gln Leu
           115           120           125
Ala Ala Ile Ala Ala Lys Ala Ile Lys Glu Ala Arg Tyr His Leu Arg
           130           135           140
Phe Ser Arg Gly Trp Leu Val Arg Leu Gly Asp Gly Thr Glu Thr Ser
           145           150           155           160
Ala Gln Lys Met Gln Gln Ala Val Asp Ser Leu Trp Arg Phe Thr Ala
           165           170           175
Glu Leu Phe Asp Ala Asp Glu Val Glu Leu Ala Leu Ile Asp Asp Gly
           180           185           190
Val Ala Val Asp Pro Arg Asp Leu Arg Asp Pro Trp Glu Arg Glu Val
           195           200           205
Phe Ala Gly Leu Ala Glu Ala Thr Leu Arg Val Pro Glu Glu Val Ala
           210           215           220
Tyr Arg Thr Gly Gly Lys Lys Gly Leu His Thr Glu His Leu Gly Pro
           225           230           235           240
Met Leu Ala Glu Met Gln Tyr Leu Gln Arg Val Tyr Pro Gly Gln Gln
           245           250           255
Trp

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<210> 10218

<211> 400

<212> PRT

<213> Enterobacter cloacae

<400> 10218

Ala Ala Arg Ala Val Arg Ala Pro Ile Pro Arg Leu Ser Val Asn Leu

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1           5           10           15
Asp Pro Arg Pro Ala Lys Arg Ser Thr Ala Ala Ile Pro Ala Val Ser
20           25           30
Pro Ser Thr Ile Ser Asn Val Phe Glu Ala Ala Met Thr Thr Phe His
35           40           45
Ser Leu Thr Val Ala Lys Val Glu Pro Glu Thr Arg Asp Ala Val Thr
50           55           60
Ile Thr Phe Ala Val Pro Gln Ala Leu Gln Glu Ala Tyr Arg Phe Arg
65           70           75           80
Pro Gly Gln His Leu Thr Leu Lys Ala Ser Pro Gly Gly Asp Glu Leu
85           90           95
Arg Arg Cys Tyr Ser Ile Cys Arg Ser Thr Ala Cys Gly Glu Ile Ser
100          105          110
Val Ala Val Lys Ala Ile Glu Gly Gly Arg Phe Ser Arg Tyr Ala Arg
115          120          125
Asp Glu Ile Lys Pro Gly Met Ala Leu Glu Val Met Val Pro Gln Gly
130          135          140
His Phe Gly Tyr Gln Pro Gln Ala Glu Arg Glu Gly His Tyr Leu Ala
145          150          155          160
Ile Ala Ala Gly Ser Gly Ile Thr Pro Met Leu Ala Ile Met Ser Ala
165          170          175
Thr Leu Ala Thr Glu Ala His Ser His Phe Thr Leu Ile Tyr Gly Asn
180          185          190
Arg Ser Ser Gln Ser Met Met Phe Arg Arg Ala Leu Ala Asp Leu Lys
195          200          205
Asp Lys Tyr Pro Gln Arg Leu Gln Leu Ile Ala Ile Phe Ser Gln Glu
210          215          220
Thr Leu Asp Ser Asp Leu Leu His Gly Arg Ile Asp Gly Glu Lys Leu
225          230          235          240
Gln Ala Leu Ala Lys Thr Leu Val Asn Phe Arg Gln Tyr Asp Glu Ala
245          250          255
Phe Ile Cys Gly Pro Ser Ala Met Met Asp Glu Ala Glu Ala Ala Leu
260          265          270
Gln Ala Leu Gly Met Pro Glu Lys Ala Ile His Leu Glu Arg Phe Asn
275          280          285
Thr Pro Gly Thr Ala Val Lys Arg Thr Ala Ser Val Gln Ala Asp Gly
290          295          300
Gln Lys Val Thr Val Arg Gln Asp Gly Arg Asp Arg Glu Ile Thr Leu
305          310          315          320
Thr Ala Asp Asp Glu Ser Ile Leu Asp Ala Ala Leu Arg Gln Gly Ala
325          330          335
Asp Leu Pro Tyr Ala Cys Lys Gly Gly Val Cys Ala Thr Cys Lys Cys
340          345          350
Lys Val Leu Arg Gly Lys Val Asp Met Ala Thr Asn Tyr Ser Leu Glu
355          360          365
Pro Asp Glu Leu Ala Ala Gly Tyr Val Leu Ser Cys Gln Ala Leu Pro
370          375          380
Leu Thr Ala Asp Val Ile Val Asp Phe Asp Ala Lys Gly Met Ala
385          390          395          400

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<210> 10219

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 10219

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Arg Cys Trp Arg Thr Cys Asn Val Thr Thr Ala Arg Asn Ala Ile Ala
1           5           10           15
Pro Val His Cys Cys Ala Ser Val Arg Phe Trp Arg Val Ala Met Ser
20           25           30
His Asn Ala Trp His Asn Ala Arg Ala Met Tyr Glu Arg Asp Ala Cys

```

<210> 10220
<211> 326
<212> PRT
<213> Enterobacter cloacae

<400> 10220

Glu	Lys	Cys	His	Asn	Ala	Gly	Asn	Thr	Cys	Ala	Gly	Asn	Ala	Leu	Met
1				5					10					15	
Ile	Asp	Ala	Gly	His	Ile	Ser	Ile	Arg	Ala	Leu	Leu	Ile	Phe	Ile	Asp
			20					25					30		
Val	Tyr	Glu	Thr	Gln	Asn	Phe	Ser	Val	Val	Ala	Arg	Arg	Glu	Gly	Ile
			35				40					45			
Ser	Ala	Ser	Gln	Val	Ser	Arg	Val	Ile	His	Gln	Leu	Glu	Asp	Ala	Leu
	50					55					60				
Gly	Gln	Gln	Leu	Phe	Tyr	Arg	Asn	Thr	Arg	Ala	Ile	Met	Pro	Thr	Glu
65					70					75					80
Ser	Gly	His	Leu	Phe	Val	Arg	Tyr	Ala	Arg	Ala	Met	Ala	Gly	Asn	Met
				85					90					95	
Glu	Asp	Ala	Arg	Arg	Glu	Leu	Asp	Glu	Arg	Ala	Arg	Glu	Pro	Ser	Gly
			100					105					110		
Thr	Leu	Arg	Ile	Asn	Gly	Pro	Val	Phe	Phe	Gly	Gln	Arg	His	Ile	Ala
			115				120					125			
Pro	Gly	Leu	Pro	Gly	Leu	Leu	Ala	Arg	Tyr	Pro	Arg	Leu	Ser	Ile	Glu
	130					135					140				
Leu	Thr	Leu	Thr	Asp	Asp	Phe	Ile	Asp	Pro	His	Arg	Asp	Ala	Ala	Asp
145					150					155					160
Val	Ile	Phe	Arg	Ile	Gly	Ala	Leu	Thr	Asp	Ser	Ser	Phe	His	Ala	Arg
			165						170					175	
Val	Phe	Gly	Gln	Gln	Phe	Tyr	His	Leu	Ala	Ala	Ser	Pro	Asp	Tyr	Leu
			180					185					190		
Gln	Lys	His	Gly	Ala	Pro	Glu	Gly	Pro	Asp	Asp	Leu	Ser	Arg	His	His
			195				200					205			
Cys	Leu	Val	Tyr	Arg	Gly	Ser	Ser	Gly	Pro	Asn	Arg	Trp	Leu	Ile	Arg
	210					215					220				
Gln	Pro	Gly	Glu	Ala	Trp	Val	His	Tyr	Pro	Ile	Val	Pro	Leu	Met	Thr
225					230					235					240
Ser	Asn	Asn	Ala	Glu	Thr	Leu	Leu	Ile	Ala	Ala	Leu	Gly	Gly	Met	Gly
			245						250					255	
Val	Val	Leu	Phe	Pro	Asp	Trp	Met	Val	Ser	Glu	Arg	Leu	Lys	Ser	Gly
			260					265					270		
Glu	Leu	Val	Ala	Leu	Leu	Pro	Glu	Met	Glu	Cys	Ser	Ile	Asn	Thr	Glu
		275					280					285			
Pro	Leu	Thr	Ile	Ala	Ala	Ile	Tyr	Pro	Asn	Ala	Arg	His	Pro	Pro	Leu

Glu 1	Lys	Cys	His	Asn 5	Ala	Gly	Asn	Thr	Cys 10	Ala	Gly	Asn	Ala	Leu 15	Met
Ile	Asp	Ala	Gly 20	His	Ile	Ser	Ile	Arg 25	Ala	Leu	Leu	Ile	Phe 30	Ile	Asp
Val	Tyr	Glu	Thr 35	Gln	Asn	Phe	Ser	Val 40	Val	Ala	Arg	Arg 45	Glu	Gly	Ile
Ser	Ala	Ser	Gln	Val	Ser	Arg	Val	Ile	His	Gln	Leu	Glu	Asp	Ala	Leu
Gly 65	Gln	Gln	Leu	Phe	Tyr	Arg	Asn	Thr	Arg	Ala	Ile	Met	Pro	Thr	Glu
Ser	Gly	His	Leu	Phe 85	Val	Arg	Tyr	Ala	Arg	Ala	Met	Ala	Gly	Asn 95	Met
Glu	Asp	Ala	Arg	Arg	Glu	Leu	Asp	Glu	Arg	Ala	Arg	Glu	Pro	Ser	Gly
Thr	Leu	Arg	Ile	Asn	Gly	Pro	Val	Phe	Phe	Gly	Gln	Arg	His	Ile	Ala
Pro	Gly	Leu	Pro	Gly	Leu	Leu	Ala	Arg	Tyr	Pro	Arg	Leu	Ser	Ile	Glu
Leu 145	Thr	Leu	Thr	Asp	Asp	Phe	Ile	Asp	Pro	His	Arg	Asp	Ala	Ala	Asp
Val	Ile	Phe	Arg	Ile	Gly	Ala	Leu	Thr	Asp	Ser	Ser	Phe	His	Ala	Arg
Val	Phe	Gly	Gln	Gln	Phe	Tyr	His	Leu	Ala	Ala	Ser	Pro	Asp	Tyr	Leu
Gln	Lys	His	Gly	Ala	Pro	Glu	Gly	Pro	Asp	Asp	Leu	Ser	Arg	His	His
Cys	Leu	Val	Tyr	Arg	Gly	Ser	Ser	Gly	Pro	Asn	Arg	Trp	Leu	Ile	Arg
Gln 225	Pro	Gly	Glu	Ala	Trp	Val	His	Tyr	Pro	Ile	Val	Pro	Leu	Met	Thr
Ser	Asn	Asn	Ala	Glu	Thr	Leu	Leu	Ile	Ala	Ala	Leu	Gly	Gly	Met	Gly
Val	Val	Leu	Phe	Pro	Asp	Trp	Met	Val	Ser	Glu	Arg	Leu	Lys	Ser	Gly
Glu	Leu	Val	Ala	Leu	Leu	Pro	Glu	Met	Glu	Cys	Ser	Ile	Asn	Thr	Glu
Pro	Leu	Thr	Ile	Ala	Ala	Ile	Tyr	Pro	Asn	Ala	Arg	His	Pro	Pro	Leu

290 295 300
 Asn Val Arg Ala Val Ile Asp Tyr Tyr Ile Glu Arg Phe Gly Thr Pro
 305 310 315 320
 Leu Tyr Trp Gln Thr
 325

<210> 10221
 <211> 161
 <212> PRT
 <213> Enterobacter cloacae

<400> 10221
 Leu Gln Glu Gln Val Met Thr Val Pro Val Gln His Pro Met Tyr Ile
 1 5 10 15
 Asp Gly Gln Phe Val Ala Trp Gln Gly Asp Ala Trp Ile Asp Val Ile
 20 25 30
 Asn Pro Ala Thr Glu Glu Val Ile Ser Arg Ile Pro Asp Gly Thr Ala
 35 40 45
 Glu Asp Ala Arg Lys Ala Ile Asp Ala Ala Glu Arg Ala Gln Ala Gly
 50 55 60
 Trp Glu Ala Leu Pro Ala Ile Glu Arg Ala Ser Trp Leu Arg Lys Ile
 65 70 75 80
 Ser Ala Gly Ile Arg Glu Arg Val Ser Glu Ile Ser Ala Leu Ile Val
 85 90 95
 Ala Glu Gly Gly Lys Ile Gln Gln Leu Ala Glu Val Glu Val Asn Phe
 100 105 110
 Thr Ala Asp Tyr Ile Asp Tyr Met Ala Glu Trp Ala Arg Arg Tyr Glu
 115 120 125
 Gly Asp Ser Phe Arg Ala Thr Val Asp Met Pro Gly Ala Lys Val Val
 130 135 140
 Arg Thr Ile Gln Ser Asp Ser Arg His Ala Arg Gly Glu Gly Ser Ala
 145 150 155 160
 Tyr

<210> 10222
 <211> 556
 <212> PRT
 <213> Enterobacter cloacae

<400> 10222
 Lys Val Asn His Val Met Arg Leu Pro Gln Arg Asp Pro Tyr Ala Pro
 1 5 10 15
 Arg Glu Trp Gln Pro His Glu Lys Pro Ala Leu Leu Gly Ser Pro Ser
 20 25 30
 Thr Pro Glu His Pro Thr Pro Lys Arg Ile Ala Tyr Gly Val Val Gly
 35 40 45
 Leu Leu Val Cys Leu Thr Gly Ala Leu Gly Asn Ala Val Val Thr Ala
 50 55 60
 Asn Leu Gln Asn Leu Gln Gly Thr Phe Gly Ala Trp Ser Thr Glu Ile
 65 70 75 80
 Ala Trp Leu Pro Ala Val Tyr Val Met Thr Asn Val Ser Ile Asn Leu
 85 90 95
 Leu Leu Val Lys Phe Arg Gln Gln Tyr Gly Leu Arg Ala Phe Thr Glu
 100 105 110
 Gly Phe Leu Val Leu Tyr Val Leu Val Thr Phe Phe His Leu Phe Val
 115 120 125
 Asn Asp Leu Ser Ser Ala Leu Met Val Arg Ala Ala His Gly Met Val
 130 135 140
 Ala Ala Ala Leu Ser Ser Leu Gly Ile Tyr Tyr Gln Ile Gln Ala Trp
 145 150 155 160

Pro Ala Lys His Arg Leu Lys Ala Leu Thr Ile Gly Ile Thr Gly Ser
 165 170 175
 Ser Leu Ala Ile Pro Leu Ala Arg Leu Phe Ser Thr Glu Leu Leu Gln
 180 185 190
 Leu Asp Glu Trp Arg Gly Leu Tyr Phe Phe Glu Leu Gly Leu Ala Leu
 195 200 205
 Ile Ser Leu Ala Cys Val Met Val Leu Lys Leu Pro Pro Gly Asp Arg
 210 215 220
 Arg Lys Val Phe Glu Lys Lys Asp Phe Ile Thr Phe Phe Leu Leu Ala
 225 230 235 240
 Pro Gly Met Ala Leu Leu Cys Ala Val Leu Ser Leu Gly Arg Leu Asp
 245 250 255
 Trp Trp Phe Glu Ala Pro Trp Ile Gly Trp Ala Leu Ala Leu Ser Leu
 260 265 270
 Val Leu Ile Val Ser Ala Ile Val Phe Glu His Asn Arg Ser Asn Pro
 275 280 285
 Leu Leu Asn Thr Arg Trp Leu Ser Ser Gly Ser Ile Val Arg Leu Gly
 290 295 300
 Leu Ile Met Leu Leu Ile Arg Ile Val Leu Ala Glu Gln Asn Thr Gly
 305 310 315 320
 Val Ile Gly Trp Leu Gln Tyr Val Gly Leu Gln Asn Glu Gln Met Thr
 325 330 335
 His Leu Ala Trp Ala Ile Phe Ala Gly Ile Val Cys Gly Ile Val Thr
 340 345 350
 Ser Cys Leu Thr Ile Lys Pro Thr Lys Leu Ala Trp Pro Ile Ile Thr
 355 360 365
 Ser Leu Val Leu Met Ile Val Ala Ser Leu Leu Asp Ser Gln Ser Asn
 370 375 380
 Asn Leu Thr Arg Pro Asp Gln Leu Ile Phe Ser Gln Phe Leu Leu Gly
 385 390 395 400
 Phe Gly Ser Ala Phe Phe Leu Ala Pro Ala Met Leu Ala Ala Ile Gly
 405 410 415
 Gly Val Ile Ala Asp Pro Arg Asn Leu Val Ser Phe Ser Val Met Phe
 420 425 430
 Gly Met Ser Gln Asn Leu Gly Gly Leu Leu Gly Ser Ala Ile Leu Gly
 435 440 445
 Thr Phe Gln Thr Trp Arg Glu Lys Tyr His Ser Ser Leu Leu Ala Asp
 450 455 460
 Gln Leu Thr Thr Leu Asn Pro Leu Val Asn Glu Arg Ile Gln Leu Tyr
 465 470 475 480
 Thr Gln Met Tyr Lys Ser Leu Ile Gly Asp Ser Ser Leu Leu Gly Thr
 485 490 495
 Gln Ala Ile Thr Gln Leu Gln Thr Val Thr Ala Leu Glu Ala Asn Ile
 500 505 510
 Leu Ala Tyr Asn Asp Thr Tyr Leu Leu Thr Ala Ser Ile Ala Thr Ala
 515 520 525
 Thr Leu Val Trp Ile Leu Trp Arg Leu Leu Arg Leu Arg Ile Thr Ala
 530 535 540
 Arg Met Ala Leu Lys Asn Ala Thr Gly Asn Lys
 545 550 555

<210> 10223

<211> 484

<212> PRT

<213> Enterobacter cloacae

<400> 10223

Ala Gly Gly Val Pro Ala Ala Ala Pro Trp His Val Gly Ala Gly Asp
 1 5 10 15
 His Arg His Ala Gly Gly Glu Thr Met Thr Leu Arg Pro Ile Ala Gly
 20 25 30

Leu Leu Met Met Ala Ile Leu Ala Gly Cys Gln Ser Val Asp Val Glu
 35 40 45
 Pro Ala Lys Ser Ser Leu His Ile Pro Ala Gln Trp Arg Ala Thr Ser
 50 55 60
 Gly Pro Ala Ser Pro Thr Glu Gln Leu Trp Trp Arg Asn Phe His Asp
 65 70 75 80
 Ser Asn Leu Asn Arg Tyr Val Asp Gln Ala Leu Lys Asn Asn Ser Asp
 85 90 95
 Val Leu Ile Ala Arg Glu Arg Ile Asn Glu Tyr Gln Ala Arg Val Phe
 100 105 110
 Ala Ala Asp Gly Ser Leu Phe Pro Ser Leu Asp Ala Gly Val Thr Gly
 115 120 125
 Thr Arg Ala Arg Ser Gln Ser Ala Ala Thr Gly Leu Pro Val Tyr Gly
 130 135 140
 Thr Leu Tyr Lys Gly Ser Leu Thr Ala Ser Tyr Asp Val Asp Ile Trp
 145 150 155 160
 Gly Val Asn Arg Ser Thr Ser Arg Ala Ala Glu Ala Ser Leu Glu Ala
 165 170 175
 Gln Lys Ala Ala Ala Ala Ala Ala Asp Leu Thr Val Ala Ser Ser Val
 180 185 190
 Ala Ser Gly Tyr Val Thr Leu Leu Ser Leu Asp Glu Gln Leu Arg Val
 195 200 205
 Thr Gln Ser Thr Leu Lys Ser Arg Glu Glu Ala Phe Asn Leu Ala Lys
 210 215 220
 Arg Gln Phe Glu Thr Gly Tyr Ser Ser Arg Leu Glu Leu Met Gln Ser
 225 230 235 240
 Asp Ser Glu Leu Arg Ala Thr Arg Ala Gln Val Pro Leu Leu Gln His
 245 250 255
 Gln Ile Ala Gln Gln Glu Asn Ala Leu Ser Leu Leu Leu Gly Ser Asn
 260 265 270
 Pro Gly Asp Val Ala Arg Gly Glu Ser Phe Asp Ala Leu Thr Pro Leu
 275 280 285
 Lys Leu Pro Ser Gln Leu Pro Ser Thr Leu Leu Asn Arg Arg Pro Asp
 290 295 300
 Ile Val Gln Ala Glu Arg Gln Leu Ile Ala Ala Asp Ala Thr Leu Ala
 305 310 315 320
 Ala Ser Arg Ala Ser Leu Leu Pro Ser Ile Asn Leu Thr Ala Thr Gly
 325 330 335
 Ser Val Gln Asp Arg Thr Leu Ser Gly Leu Leu Asp Asn Pro Leu Gln
 340 345 350
 Leu Trp Ser Val Gly Gly Ser Ile Leu Ala Pro Leu Leu Asn Arg Gln
 355 360 365
 Ala Leu Asn Ala Gln Val Asp Ile Ser Gln Ser Gln Arg Asn Gln Ala
 370 375 380
 Leu Tyr Ser Tyr Glu Lys Thr Val Arg Asn Ala Phe Ala Glu Val Asn
 385 390 395 400
 Asp Ser Leu Asp Ala Ile Thr Arg Tyr Gln Glu Gln Leu Thr Glu Leu
 405 410 415
 Leu Ala Gln Gln Ala Val Ala Gln Glu Thr Leu Arg Ile Ala Gln Asn
 420 425 430
 Arg Tyr Arg Asn Gly Tyr Ser Ser Tyr Leu Asp Val Leu Asp Ala Gln
 435 440 445
 Arg Thr Leu Phe Ser Val Gln Thr Ser Val Val Gln Val Lys Asn Asn
 450 455 460
 Leu Leu Leu Ala Gln Ile Asp Leu Tyr Lys Ala Leu Gly Gly Gly Trp
 465 470 475 480
 Ser Ser Ala

<210> 10224

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 10224

```

Phe Gly Gly Tyr Cys Cys Tyr Thr Arg Tyr His Gly Lys Arg Cys Gly
1      5      10      15
Glu Arg Leu Ser Val Asn Phe Gln Asp Ile His Thr Tyr Tyr Gln Gln
      20      25      30
Leu Asn Ile Gly Gln Phe Phe Pro His Met Leu Cys Lys Gly Glu Ala
      35      40      45
Leu Thr Val Ala Ala Asn Lys Lys Leu Thr Val Glu Pro Gly Tyr Ile
      50      55      60
Tyr Phe Cys Thr Glu Gly Ser Leu Thr Ile Leu Met Pro Asp Asp Gly
65      70      75      80
Leu Asn Ile Gly Asn Thr Ile Glu Tyr Met Pro Ile Gly Leu Met Glu
      85      90      95
Arg Tyr Cys Pro Leu Ala Lys Tyr Glu Tyr Arg Ser Ser Ala Lys Val
      100     105     110
Lys Leu Val Arg Ile Ser Trp Val Asp Phe Asp Gln Ile Phe Phe Gln
      115     120     125
Gly Gly Pro Glu Arg Met Gln Ala Leu Ala Thr Ile Leu Thr Tyr Met
      130     135     140
Ser Ile Phe Thr Ile Asp Leu His Asn Glu Arg Arg Gln Val Thr Ser
145      150     155     160
Tyr Gln Thr Ile Lys Pro Met Leu Tyr Arg Tyr Leu Tyr Arg Gln Glu
      165     170     175
Thr His Thr Gly Glu Asn Glu Gly Leu Ala Leu Phe Ile Ile Lys Arg
      180     185     190
Thr Asn Leu Ser Arg Thr His Val Phe Arg Val Leu Ala Asp Leu Lys
      195     200     205
Ala Gly Gly Tyr Ile Thr Met Lys Arg Gly Lys Leu Val Ser Ile Asp
      210     215     220
Arg Pro Leu Pro Asp Ala Tyr
225      230

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<210> 10225

<211> 697

<212> PRT

<213> Enterobacter cloacae

<400> 10225

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Phe Glu Ile Lys Leu Phe Ile Val Lys Ser Arg Asn Ile Trp Arg Glu
1      5      10      15
Glu Met Gln Gln Leu Ala Ser Phe Leu Ser Gly Ile Trp Gln Ser Gly
      20      25      30
Arg Gly Arg Glu Arg Thr Ile Thr His Ala Ile Ser Gly Glu Thr Leu
      35      40      45
Tyr Gln Val Thr Ser Glu Gly Leu Asp Met Ala Ala Ala Arg Arg Tyr
      50      55      60
Ala Ile Glu His Gly Gly Glu Val Leu Arg Ala Met Ser Phe Ile Glu
65      70      75      80
Arg Ala Ala Met Leu Lys Ala Val Ala Lys His Leu Leu Ser Gln Lys
      85      90      95
Asp Arg Phe Tyr Ala Leu Ser Ala Gln Thr Gly Ala Thr Lys Ala Asp
      100     105     110
Ser Trp Val Asp Ile Glu Gly Gly Ile Gly Thr Leu Phe Thr Tyr Ala
      115     120     125
Ser Leu Gly Ser Arg Glu Leu Pro Asp Asp Thr Leu Trp Pro Glu Asp
      130     135     140
Glu Leu Ile Pro Leu Ser Lys Glu Gly Gly Phe Ala Ala Arg His Val
145      150     155     160

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Leu Thr Ser Lys Ser Gly Val Ala Val His Ile Asn Ala Phe Asn Phe
 165 170 175
 Pro Cys Trp Gly Met Leu Glu Lys Leu Ala Pro Thr Trp Leu Ala Gly
 180 185 190
 Met Pro Ala Ile Ile Lys Pro Ala Thr Ala Thr Ala Gln Val Thr Gln
 195 200 205
 Ala Met Val Lys Ala Ile Val Glu Ser Gly Leu Val Pro Asp Gly Ala
 210 215 220
 Ile Ser Leu Ile Cys Gly Gly Ala Gly Asp Leu Leu Asn His Leu Asp
 225 230 235 240
 Ser Gln Asp Val Val Thr Phe Thr Gly Ser Ala Ser Thr Gly Gln Ser
 245 250 255
 Leu Arg Val His Pro Asn Ile Val Ala His Ser Ile Pro Phe Thr Met
 260 265 270
 Glu Ala Asp Ser Leu Asn Cys Cys Val Leu Gly Glu Asp Val Thr Pro
 275 280 285
 Glu Gln Pro Glu Phe Thr Leu Phe Ile Arg Glu Val Val Arg Glu Met
 290 295 300
 Thr Ala Lys Ala Gly Gln Lys Cys Thr Ala Ile Arg Arg Ile Ile Val
 305 310 315 320
 Pro Glu Ala Gln Val Glu Ala Val Ser Gln Ala Leu Ile Ala Arg Leu
 325 330 335
 Glu Asn Val Val Val Gly Asp Pro Ala Gln Glu Gly Val Lys Met Gly
 340 345 350
 Ala Leu Val Asn Ser Glu Gln Arg Ala Asp Val Gln Glu Lys Val Asp
 355 360 365
 His Leu Leu Ala Ser Gly Cys Gln Ile Arg Leu Gly Gly Lys Ala Asp
 370 375 380
 Leu Gln Ala Pro Gly Ala Phe Phe Pro Pro Thr Leu Leu Phe Cys Pro
 385 390 395 400
 Gln Pro Asp Glu Thr Pro Ala Val His Ala Thr Glu Ala Phe Gly Pro
 405 410 415
 Val Ala Thr Leu Met Pro Cys Arg Asn Thr Glu His Ala Met Gln Leu
 420 425 430
 Ala Arg Ala Gly Gly Gly Ser Leu Ala Gly Thr Leu Val Thr Ala Asp
 435 440 445
 Thr Arg Val Ala Arg Gln Phe Ile Ala Gly Ala Ala Arg Ala His Gly
 450 455 460
 Arg Ile Gln Ile Leu Asn Gln Glu Ser Ser Lys Glu Ser Thr Gly His
 465 470 475 480
 Gly Ser Pro Leu Pro Gln Leu Val His Gly Gly Pro Gly Arg Ala Gly
 485 490 495
 Gly Gly Glu Glu Leu Gly Gly Leu Arg Ala Val Lys His Tyr Leu Gln
 500 505 510
 Arg Thr Ala Ile Gln Gly Ser Pro Ser Met Leu Ala Ala Ile Gly Lys
 515 520 525
 Gln Trp Val Arg Gly Ala Glu Val Gln Glu Asp Arg Val His Pro Phe
 530 535 540
 Arg Lys Tyr Phe Glu Glu Leu Gln Pro Gly Asp Ser Leu Leu Thr Pro
 545 550 555 560
 Arg Arg Thr Leu Thr Glu Ala Asp Ile Val Asn Phe Ala Cys Leu Ser
 565 570 575
 Gly Asp His Phe Tyr Ala His Met Asp Lys Ile Gly Ala Ala Glu Ser
 580 585 590
 Ile Phe Gly Glu Arg Val Val His Gly Tyr Phe Leu Ile Ser Ala Ala
 595 600 605
 Ala Gly Leu Phe Val Asp Ala Gly Val Gly Pro Val Ile Ala Asn Tyr
 610 615 620
 Gly Met Glu Asn Leu Arg Phe Ile Glu Pro Val Lys Pro Gly Asp Thr
 625 630 635 640
 Ile Gln Val Arg Leu Thr Cys Lys Arg Lys Thr Leu Lys Lys Gln Arg

Thr	Ala	Glu	Glu	645	Lys	Pro	Thr	Gly	Val	650	Val	Glu	Trp	Ala	Val	655	Glu	Ile
			660						665						670			
Phe	Asn	Gln	His	Gln	Gln	Ala	Val	Ala	Leu	Tyr	Ser	Ile	Leu	Thr	Leu			
		675						680				685						
Val	Ala	Arg	Gln	Gln	Gly	Asp	Phe											
	690					695												

<210> 10226

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10226

Arg	Ile	Ser	Thr	Arg	Gly	Glu	Asn	Thr	Met	Met	Thr	Tyr	Asp	Arg	Asn			
1				5					10					15				
Arg	Asn	Ala	Ile	Thr	Thr	Gly	Ser	Arg	Val	Met	Ile	Ser	Gly	Thr	Gly			
			20					25					30					
Gln	Phe	Gly	Val	Ile	Lys	Ala	Ile	His	Ser	Asp	Gly	Leu	Asn	Ala	Glu			
		35					40					45						
Gln	Val	Arg	Arg	Gly	Lys	Thr	Val	Glu	Val	Glu	Gly	Cys	Glu	Gly	Lys			
		50				55					60							
Phe	Glu	Pro	Ile	Glu	Leu	Ile	Arg	Leu	Gly	Met	His							
65					70					75								

<210> 10227

<211> 313

<212> PRT

<213> Enterobacter cloacae

<400> 10227

Arg	Asp	Leu	Pro	Lys	Trp	Leu	Leu	Trp	Ala	Arg	Asn	Ile	Pro	His	Tyr			
1				5					10					15				
Tyr	Lys	Ile	Arg	Phe	Leu	Asn	Phe	Arg	Val	Asn	Ile	Met	Ile	Tyr	Asp			
			20					25					30					
Cys	Phe	Leu	Tyr	Tyr	Asp	Glu	Asp	Met	Leu	Leu	Asp	Ile	Arg	Leu	His			
		35					40					45						
Thr	Leu	Ala	Asp	Val	Val	Asp	Arg	Phe	Val	Ile	Val	Glu	Ala	Thr	His			
		50				55					60							
Ser	Phe	Thr	Gly	Ile	Pro	Arg	Glu	Leu	His	Phe	Asp	Ile	Thr	Lys	Phe			
65					70				75						80			
Ala	Lys	Phe	Lys	Asp	Lys	Ile	Ile	Tyr	Val	Pro	Phe	Asp	Ala	Gln	Pro			
				85					90					95				
Ile	Leu	Asn	Arg	Ala	Asp	Asn	Asn	Gln	Val	Asp	Ala	Trp	Ala	Asn	Glu			
			100					105					110					
Ala	Ala	Leu	Arg	Asn	Ser	Ile	Met	Asn	Gly	Leu	Lys	Asp	Ala	Ala	Asp			
		115						120				125						
Asp	Asp	Leu	Ile	Leu	Val	Ser	Asp	Val	Asp	Glu	Ile	Phe	Ser	Pro	Asp			
		130				135					140							
Thr	Val	Arg	Ala	Ile	Asn	Pro	Arg	Ala	Leu	Cys	Thr	Thr	Ile	His	Gln			
145					150					155					160			
Asn	Val	Phe	Asn	Tyr	Gln	Phe	Asn	Leu	Gln	Val	His	Asn	Thr	Asp	Gly			
			165						170					175				
Thr	Pro	Arg	Lys	Cys	Thr	Leu	Pro	Arg	Ala	Thr	Ser	Tyr	Tyr	Asn	Leu			
			180					185					190					
Lys	His	Phe	His	Gly	Glu	Pro	Glu	Ser	Phe	Arg	Asn	Trp	Lys	Arg				
		195					200				205							
Ala	Arg	Lys	Asp	Lys	Asn	Trp	Ser	Trp	Phe	Lys	Trp	Asn	Trp	Leu	Lys			
		210				215					220							
Ile	Asn	Asn	Lys	Ile	Val	Lys	Asp	Gly	Gly	Trp	His	Phe	Ser	Trp	Val			
225					230					235					240			

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<210> 10228
<211> 116
<212> PRT
<213> Enterobacter cloacae
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<210> 10229
<211> 90
<212> PRT
<213> Enterobacter cloacae
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<210> 10230
<211> 261
<212> PRT
<213> Enterobacter cloacae
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<400> 10230
Ala Phe Arg Gln Ser Ser Asn Arg Arg Tyr Ser Leu Leu Ile Lys Leu
1 5 10 15

Lys Lys Glu Arg Thr His Gln Glu Asp Arg Arg Leu Ala Leu Trp Leu
 20 25 30
 Ala Thr Ser Ala Gly Leu Leu Asn Ala Ile Ala Leu Gly Ala Phe Gly
 35 40 45
 Phe Phe Pro Ser His Met Thr Gly Asn Thr Ser Gln Leu Ser Ser Glu
 50 55 60
 Val Ser Ser Thr Asp Leu Ser Asp Ile Leu Phe Phe Gly Ala Ile Ile
 65 70 75 80
 Leu Ser Phe Val Ser Gly Ala Ile Ala Ala Arg Ile Ile Val Ile Trp
 85 90 95
 Gly Ile Ile His Asn Ile Arg Leu Val Phe Ser Gln Val Leu Phe Val
 100 105 110
 Glu Gly Leu Leu Ala Gly Val Ser Leu Tyr Glu Met Tyr Phe His
 115 120 125
 Ser Phe Ala Thr Asn Gln Glu Ile Ile Ile Phe Leu Cys Gly Leu Met
 130 135 140
 Gly Ile His Asn Ser Thr Ser Thr Gln Leu Ser Gly Gly Arg Val Arg
 145 150 155 160
 Ser Thr His Ile Thr Gly Thr Leu Thr Asp Ala Gly Ile Ser Leu Ala
 165 170 175
 Ser Val Met Val Ala Met Leu Arg Arg Asp Tyr Ser Lys Asp Thr Ala
 180 185 190
 Ala Gln Lys Ser Gln Leu Lys Thr His Leu Thr Thr Leu Phe Ser Phe
 195 200 205
 Ile Ser Gly Gly Ile Ala Gly Leu Ile Leu Phe Arg Glu Phe Gly Phe
 210 215 220
 His Ala Met Leu Ala Leu Gly Leu Met Leu Val Val Val Ala Ala Phe
 225 230 235 240
 Ser Ile Val Arg Ile Ser Trp Arg Val Arg Lys Val Arg Ala Ala Leu
 245 250 255
 Ser Arg Gln Val
 260

<210> 10231

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 10231

Gln Thr Val Ala Val Gly Gly Ala Met Glu Thr Ile His Tyr Ile Leu
 1 5 10 15
 Asp Asn Trp Asp Tyr Leu Leu Thr Leu Thr Leu Gln His Leu Trp Leu
 20 25 30
 Val Ala Leu Ala Val Gly Leu Ala Ile Ile Ile Gly Val Pro Leu Gly
 35 40 45
 Ile Leu Ile Val Arg His Lys Trp Leu Ala Thr Pro Val Leu Gly Ile
 50 55 60
 Ala Thr Ile Val Leu Thr Ile Pro Ser Ile Ala Leu Phe Gly Leu Met
 65 70 75 80
 Ile Pro Leu Phe Ser Leu Ile Gly Gln Gly Ile Gly Ala Leu Pro Ala
 85 90 95
 Ile Thr Ala Val Phe Leu Tyr Ser Leu Leu Pro Ile Val Arg Asn Thr
 100 105 110
 His Thr Ala Leu Asp Ser Leu Pro Pro Gly Leu Arg Glu Ala Gly Arg
 115 120 125
 Gly Ile Gly Met Thr Phe Trp Gln Arg Leu Arg Trp Val Glu Ile Pro
 130 135 140
 Met Ala Leu Pro Val Ile Phe Gly Gly Ile Arg Thr Ala Val Val Met
 145 150 155 160
 Asn Ile Gly Val Met Ala Ile Ala Ala Val Ile Gly Ala Gly Gly Leu
 165 170 175

Gly Leu Leu Leu Leu Asn Gly Ile Gly Gly Ser Asp Ile Arg Met Leu
 180 185 190
 Ile Ala Gly Ala Leu Met Ile Cys Leu Leu Ala Ile Val Leu Asp Trp
 195 200 205
 Leu Leu His Arg Leu Gln Val Val Leu Thr Pro Lys Gly Ile Arg
 210 215 220

<210> 10232

<211> 501

<212> PRT

<213> Enterobacter cloacae

<400> 10232

Phe Arg His Glu Asp Phe Met Lys Asn Asn Asn Tyr Gln Gln Leu Thr
 1 5 10 15
 Arg Thr Phe Gln Arg Leu Ser Arg Phe Ser His Leu Ser Ser Ile Ala
 20 25 30
 Ser Trp Asp Met Phe Thr Met Met Pro Pro Gly Gly Ser Ala Ala Arg
 35 40 45
 Gly Glu Ala Leu Ala Glu Met Ser Val Leu Gln His Gln Ile Leu Thr
 50 55 60
 Asp Lys Lys Val Gly Glu Trp Leu Ala Ala Ala Asp Glu Asp Leu
 65 70 75 80
 Asn Asp Val Glu Leu Ala Asn Leu Arg Glu Met Thr Arg Tyr Tyr Gln
 85 90 95
 Gln Ala Thr Leu Leu Pro Glu Ser Leu Val Glu Ala Lys Ser Leu Ala
 100 105 110
 Gly Ser Arg Cys Glu His Ala Trp Arg Thr Gln Arg Pro Ala Asn Asp
 115 120 125
 Trp Gln Gly Phe Ser Ala Asn Leu Lys Glu Val Val Lys Leu Ser Arg
 130 135 140
 Glu Glu Ala Arg Leu Arg Ala Glu Ala Lys Gly Cys Thr Pro Tyr Asp
 145 150 155 160
 Ala Leu Leu Asp Ile Phe Glu Pro Asp Met Thr Ser Ala Arg Leu Asp
 165 170 175
 Val Leu Phe Gly Asp Leu Lys Ser Trp Leu Pro Glu Leu Leu Ala Lys
 180 185 190
 Val Val Glu Lys Gln Ala Gln Arg Ser Phe Val Pro Pro Gln Gly Pro
 195 200 205
 Phe Pro Thr Ala Thr Gln Arg Glu Leu Gly Leu Glu Ala Met Lys Met
 210 215 220
 Leu Gly Phe Asp Phe Asn Gly Gly Arg Leu Asp Val Ser Ala His Pro
 225 230 235 240
 Phe Cys Gly Gly Val Pro Glu Asp Val Arg Ile Thr Thr Arg Tyr Asp
 245 250 255
 Glu Asp Glu Leu Leu Ser Ala Leu Phe Gly Val Ile His Glu Thr Gly
 260 265 270
 His Ala Arg Tyr Glu Gln Asn Leu Pro Arg Ala Trp Ala Gly Gln Pro
 275 280 285
 Val Ala Leu Ala Arg Ser Thr Ala Ile His Glu Ser Gln Ser Leu Phe
 290 295 300
 Phe Glu Met Gln Leu Gly Arg Ser Asp Ala Phe Leu Lys His Leu Leu
 305 310 315 320
 Pro Ala Val His Ala Arg Phe Gly Ser Gln Ala Ala Phe Ser Glu Glu
 325 330 335
 Asn Phe Ile Ala Trp Asn Gln Arg Val Lys Pro Gly Tyr Ile Arg Val
 340 345 350
 Asp Ala Asp Glu Val Ser Tyr Pro Ala His Val Val Leu Arg Tyr Glu
 355 360 365
 Ile Glu Arg Ala Leu Ile Asn Gly Glu Ile Glu Val Asp Asp Ile Pro
 370 375 380

Ala Leu Trp Asp Glu Lys Met Gln Ala Trp Leu Gly Leu Ser Thr Lys
 385 390 395 400
 Asp Asn Tyr Arg Asn Gly Cys Met Gln Asp Ile His Trp Thr Asp Gly
 405 410 415
 Gly Phe Gly Tyr Phe Pro Ser Tyr Thr Leu Gly Ala Met Tyr Ala Ala
 420 425 430
 Gln Leu Phe His Ala Ala Lys Thr Ala Leu Pro Gly Leu Gln Ile Ser
 435 440 445
 Ile Ala Gly Gly Asp Phe Ser Ala Leu Phe Asp Trp Leu Arg Gln Asn
 450 455 460
 Ile Trp Gln His Gly Ser Arg Phe Ser Thr Ser Gln Leu Ile Thr Gln
 465 470 475 480
 Ala Thr Gly Glu Asp Leu Asn Ile Arg Tyr Phe Arg Glu His Leu Thr
 485 490 495
 Ser Arg Tyr Leu
 500

<210> 10233

<211> 487

<212> PRT

<213> Enterobacter cloacae

<400> 10233

Ile Pro Phe Pro Pro Asp Leu Pro Arg Arg His Ser Glu Tyr Asn Pro
 1 5 10 15
 Leu Pro Pro Ala Pro Val Arg Arg His Ser Ser Phe Pro Leu Asp Leu
 20 25 30
 Cys Tyr Gln Tyr Thr Ile Leu Tyr Ile Asn Thr Val Phe Ile Asn Gly
 35 40 45
 Asp His Asn Ala Val Phe His Pro Thr Trp Arg Tyr Gln Ser Glu Leu
 50 55 60
 Thr Met Phe Ala Leu Cys Asp Val Asn Ala Phe Tyr Ala Ser Cys Glu
 65 70 75 80
 Thr Val Phe Arg Pro Asp Leu Lys Gly Arg Pro Val Val Val Leu Ser
 85 90 95
 Asn Asn Asp Gly Cys Val Ile Ser Arg Ser Ala Glu Ala Lys Pro Phe
 100 105 110
 Val Lys Met Gly Glu Pro Tyr Phe Lys Gln Lys Asp Arg Phe Arg His
 115 120 125
 His Gly Val Val Cys Phe Ser Ser Asn Tyr Glu Leu Tyr Ala Asp Met
 130 135 140
 Ser Asn Arg Val Met Asn Thr Leu Glu Glu Met Ser Pro Arg Ser Glu
 145 150 155 160
 Ile Tyr Ser Ile Asp Glu Ile Phe Cys Asp Leu Thr Gly Val Arg Asn
 165 170 175
 Cys Arg Asp Leu Ser Asp Phe Gly His Glu Met Arg Ala Thr Val Leu
 180 185 190
 Gln Arg Thr His Leu Thr Val Gly Val Gly Ile Ala Pro Thr Lys Thr
 195 200 205
 Leu Ala Lys Leu Ala Asn His Ala Ala Lys Arg Trp Gln Leu Gln Thr
 210 215 220
 Gly Gly Val Val Asp Leu Ser Asn Val Asp Arg Gln Arg Lys Leu Met
 225 230 235 240
 Ala Ala Leu Pro Val Glu Asp Val Trp Gly Val Gly Arg Arg Ile Ala
 245 250 255
 Lys Lys Leu Glu Met Met Gly Ile Lys Thr Val Leu Gln Leu Ala Asp
 260 265 270
 Thr Asp Ile Arg Phe Ile Arg Lys His Phe Asn Val Val Leu Glu Arg
 275 280 285
 Thr Val Arg Glu Leu Arg Gly Glu Pro Cys Leu Glu Leu Glu Glu Phe
 290 295 300

Ala Pro Val Lys Gln Glu Ile Val Cys Ser Arg Ser Phe Gly Glu Arg
 305 310 315 320
 Ile Thr Glu Tyr Asp Val Arg Gln Ala Ile Cys Ser Tyr Ala Ala
 325 330 335
 Arg Ala Ala Glu Lys Leu Arg Asn Glu His Gln His Cys Arg Phe Ile
 340 345 350
 Ser Val Phe Val Lys Thr Ser Pro Phe Ala Leu Asn Glu Pro Tyr Tyr
 355 360 365
 Gly Asn Ser Ala Ser Val Lys Leu Leu Thr Pro Thr Gln Asp Ser Arg
 370 375 380
 Asp Ile Ile Gly Ala Ser Val Arg Cys Leu Asp Ala Val Trp Lys Asn
 385 390 395 400
 Gly His Arg Tyr Gln Lys Ala Gly Val Met Leu Gly Asp Phe Tyr Ser
 405 410 415
 Gln Gly Val Ala Gln Leu Asn Leu Phe Asp Asp Asn Ala Pro Arg Lys
 420 425 430
 Asn Gly Gln Lys Leu Met Asp Val Leu Asp His Leu Asn Ala Glu Asn
 435 440 445
 Gly Arg Gly Thr Leu Tyr Phe Ala Gly Gln Gly Ile Gln Gln Pro Trp
 450 455 460
 Gln Met Lys Arg Glu Met Leu Ser Pro Arg Tyr Thr Thr Arg Phe Ala
 465 470 475 480
 Asp Leu Leu Thr Val Lys
 485

<210> 10234

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 10234

Pro Cys Thr Phe Pro Thr Ala Asn Arg Ser Ala Arg His Pro Cys Gly
 1 5 10 15
 His Phe Cys Leu Thr Thr Trp Pro Ile Phe Met Phe Ile Lys Val Leu
 20 25 30
 Gly Ser Ala Ala Gly Gly Gly Phe Pro Gln Trp Asn Cys Asn Cys Ala
 35 40 45
 Asn Cys Gln Gly Leu Arg Asp Gly Thr Leu Gln Ala Thr Pro Arg Thr
 50 55 60
 Gln Ser Ser Ile Ile Val Ser Asp Lys Gly Lys Glu Trp Val Leu Cys
 65 70 75 80
 Asn Ala Ser Pro Asp Ile Ser Gln Gln Ile Ala His Thr Pro Glu Leu
 85 90 95
 Asn Lys Lys Glu Val Leu Arg Gly Thr His Ile Gly Gly Ile Ile Leu
 100 105 110
 Thr Asp Ser Gln Ile Asp His Thr Thr Gly Leu Leu Ser Leu Arg Glu
 115 120 125
 Gly Cys Pro His Gln Val Trp Cys Thr Pro Glu Val His Glu Asp Leu
 130 135 140
 Ser Ser Gly Phe Pro Ile Phe Thr Met Leu Arg His Trp Asn Gly Gly
 145 150 155 160
 Leu Ile His His Pro Ile Ala Pro Leu Thr Ala Phe Ser Val Glu Ala
 165 170 175
 Cys Pro Asp Leu Gln Phe Thr Ala Val Pro Ile Ala Ser Asn Ala Pro
 180 185 190
 Pro Tyr Ser Pro Trp Arg Asp His Pro Leu Pro Gly His Asn Val Ala
 195 200 205
 Leu Phe Ile Glu Asn Arg Arg Asn Gly Gln Thr Leu Phe Tyr Ala Pro
 210 215 220
 Gly Leu Gly Glu Pro Asp Asp Ala Ile Leu Pro Trp Leu Lys Lys Ala
 225 230 235 240

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<210> 10235
<211> 403
<212> PRT
<213> Enterobacter cloacae
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<400>	10235														
Arg	Arg	Ala	Leu	Pro	Leu	Pro	Arg	Trp	Ser	Gly	Phe	Tyr	Gly	Ala	Cys
1				5					10					15	
Cys	Ala	Cys	Ala	Ser	Pro	Pro	Val	Trp	Pro	Leu	Arg	Thr	Pro	Leu	Ala
			20					25					30		
Thr	Ser	Asn	Asp	Tyr	Phe	Ser	Gly	Glu	Val	Met	Ser	Gln	Gln	Asp	Ala
		35					40					45			
Ala	Lys	Glu	Gln	Ala	Asn	Thr	Arg	Lys	Asn	Val	Arg	Val	Val	Ser	Ile
	50					55					60				
Phe	Thr	Ala	Ala	Ala	Ile	Gly	Ile	Val	Gly	Val	Leu	Val	Ile	Leu	Tyr
65					70					75					80
Ala	Trp	Gln	Leu	Pro	Pro	Phe	Thr	Arg	His	Ala	Gln	Phe	Thr	Asp	Asn
				85					90					95	
Ala	Tyr	Val	Arg	Gly	Gln	Thr	Thr	Phe	Ile	Ser	Pro	Gln	Val	Asn	Gly
			100					105					110		
Tyr	Ile	Thr	Glu	Val	His	Val	Gln	Asp	Phe	Ala	Gln	Val	Lys	Lys	Gly
		115					120					125			
Glu	Leu	Leu	Leu	Gln	Ile	Asp	Asp	Arg	Ile	Tyr	Arg	Gln	Arg	Val	His
	130					135					140				
Gln	Ala	Glu	Ala	Gln	Leu	Ala	Met	Lys	Ile	Ala	Ala	Leu	Asn	Asn	Asn
145					150					155					160
Leu	Gln	Gln	Arg	Arg	Ser	Ala	Glu	Ala	Val	Ile	Ala	Lys	Asn	Glu	Ala
				165					170					175	
Ala	Leu	Lys	Asn	Ala	Arg	Ala	Gln	Ser	Leu	Lys	Thr	Gln	Ala	Asp	Leu
			180					185					190		
Lys	Arg	Val	Lys	Glu	Leu	Thr	Ala	Asp	Gly	Ser	Leu	Ser	Ile	Arg	Glu
		195					200					205			
Arg	Asp	Ser	Ala	Leu	Ala	Ser	Ala	Ala	Gln	Gly	Ser	Ala	Asp	Ile	Asp
	210					215					220				
Gln	Ala	Lys	Ala	Thr	Leu	Glu	Met	Ser	Arg	Gln	Asp	Leu	Gln	Thr	Val
225					230					235					240
Ile	Val	Asn	Arg	Gly	Ser	Leu	Glu	Ala	Asp	Val	Glu	Asn	Ala	Lys	Ala
				245					250					255	
Ala	Leu	Glu	Leu	Ala	Gln	Ile	Asp	Leu	Gln	Asn	Thr	Arg	Ile	Val	Ala
			260					265					270		
Pro	Arg	Asp	Gly	Gln	Leu	Gly	Gln	Ile	Ala	Val	Arg	Leu	Gly	Ala	Tyr
		275					280					285			
Val	Ala	Ala	Gly	Thr	His	Leu	Thr	Thr	Leu	Val	Pro	Pro	Gln	His	Trp
	290					295					300				
Val	Ile	Ala	Asn	Ile	Lys	Glu	Thr	Gln	Leu	Ala	Asn	Leu	Arg	Val	Gly
305					310					315					320
Gln	Pro	Val	Lys	Phe	Thr	Val	Asp	Ala	Leu	Asn	Asp	Lys	Ala	Tyr	Gln
				325					330					335	

Gly Arg Val Glu Ser Ile Ser Pro Ala Thr Gly Val Glu Phe Ser Ala
 340 345 350
 Ile Thr Pro Asp Asn Ala Thr Gly Asn Phe Val Lys Ile Ala Gln Arg
 355 360 365
 Ile Pro Val Arg Ile Glu Val Leu Gly Glu Pro Glu Ala Tyr Arg Leu
 370 375 380
 Leu Arg Pro Gly Met Ser Val Gln Val Thr Ile Asp Thr Arg Glu Ala
 385 390 395 400
 Lys Gln

<210> 10236

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 10236

Arg Tyr Arg Leu Arg Pro Gly Ser Gly Tyr Gln Ser Ala Val Arg Arg
 1 5 10 15
 Glu Ser Arg Tyr Arg Gln Pro Gly Arg Cys Leu Arg Ser Pro Pro Leu
 20 25 30
 Thr Ala Arg Trp Glu Gly Phe Ser Phe Pro Ala Tyr Phe Val Ser Ser
 35 40 45
 Ala Pro Thr Leu Gln Pro Gly Gly Leu Met Ser Val Ile Ile Asp Thr
 50 55 60
 Phe Ile Ala Pro Pro Cys His Asp Asp Ile Glu Ile Leu Trp Gln Asp
 65 70 75 80
 Glu His Leu Leu Leu Ile Asn Lys Pro Ser Gly Leu Leu Ser Leu Ser
 85 90 95
 Gly Lys Asn Pro Gln Asn Arg Asp Ser Val His His Arg Leu Val Gln
 100 105 110
 Thr Phe Pro Gly Cys Thr Leu Val His Arg Leu Asp Phe Gly Thr Ser
 115 120 125
 Gly Leu Met Val Ile Ala Arg Asn Lys Ala Ile Asn Ala Ala Leu Cys
 130 135 140
 His Gln Phe Ser Gln Arg Ala Val Ser Lys Val Tyr Thr Ala Leu Leu
 145 150 155 160
 Cys Gly His Val Glu Gln Asp Glu Gly Thr Val Asp Ala Pro Ile Ala
 165 170 175
 Lys Asp Gln Ala Leu Phe Pro Leu Met Thr Ile Cys Ala Arg Thr Gly
 180 185 190
 Lys Pro Ala Arg Ser Arg Tyr Arg Val Met Glu Arg Ile Tyr Gln Asp
 195 200 205
 Thr Thr Met Pro Leu Thr Arg Val Glu Leu Thr Pro Glu Thr Gly Arg
 210 215 220
 Thr His Gln Leu Arg Ile His Cys Gln Gln Leu Gly His Pro Ile Leu
 225 230 235 240
 Gly Cys Asp Leu Tyr Gly Gly Leu Glu Trp Pro Gly Ala Glu Glu Thr
 245 250 255
 Pro Arg Leu Met Leu His Ala Ser Val Leu Asn Phe Ile His Pro Leu
 260 265 270
 Ser Gly Glu Thr Ile Asn Ala Cys His Ala Ala Pro Phe
 275 280 285

<210> 10237

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 10237

Lys Val Leu Leu Met Lys Thr Leu Leu Pro Thr Ser Thr Ala Gly Ser

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1           5           10           15
Leu Pro Lys Pro Thr Trp Leu Ala Gln Pro Glu Thr Leu Trp Ser Pro
20           25           30
Trp Lys Leu Gln Asp Glu Glu Leu Leu Ala Gly Lys Gln Asp Ala Leu
35           40           45
Arg Leu Ser Leu Asp Glu Gln Ile Arg Ala Gly Ile Asp Ile Val Ser
50           55           60
Asp Gly Glu Gln Thr Arg Gln His Phe Val Thr Thr Phe Ile Glu His
65           70           75           80
Leu Ser Gly Val Asp Phe Glu Asn Arg Gln Thr Val Arg Ile Arg Asn
85           90           95
Arg Tyr Asp Ala Ser Val Pro Thr Val Val Asp Ala Val Ala Arg Gln
100          105          110
Lys Pro Val Phe Val Asp Asp Ala Lys Tyr Leu Arg Gln Leu Thr Asp
115          120          125
Lys Pro Ile Lys Trp Ala Leu Pro Gly Pro Met Thr Met Ile Asp Thr
130          135          140
Leu Tyr Asp Ala His Tyr Lys Ser Arg Glu Lys Leu Ala Trp Glu Phe
145          150          155          160
Ala Lys Ile Leu Asn Gln Glu Ala Arg Glu Leu Glu Ala Ala Gly Val
165          170          175
Asp Ile Ile Gln Phe Asp Glu Pro Ala Phe Asn Val Phe Phe Asp Glu
180          185          190
Val Asn Asp Trp Gly Ile Ala Ala Leu Glu Arg Ala Ile Glu Gly Leu
195          200          205
Lys Cys Glu Thr Ala Val His Ile Cys Tyr Gly Tyr Gly Ile Lys Ala
210          215          220
Asn Thr Asp Trp Lys Lys Thr Leu Gly Ser Glu Trp Arg Gln Tyr Glu
225          230          235          240
Glu Ala Phe Pro Lys Leu Gln Thr Ser Lys Ile Asp Ile Ile Ser Leu
245          250          255
Glu Cys His Asn Ser Arg Val Pro Met Asp Leu Leu Glu Leu Ile Arg
260          265          270
Gly Lys Lys Val Met Val Gly Ala Ile Asp Val Ala Thr Gln Thr Ile
275          280          285
Glu Thr Pro Glu Glu Val Ala Asp Thr Leu Arg Lys Ala Leu Gln Phe
290          295          300
Val Asp Ala Asp Lys Leu Tyr Pro Ser Thr Asn Cys Gly Met Ala Pro
305          310          315          320
Leu Ser Arg Gln Val Ala Asn Gly Lys Leu Lys Ala Leu Ser Ala Gly
325          330          335
Ala Asp Ile Ile Arg Arg Glu Leu Ala Arg
340          345

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<210> 10238

<211> 834

<212> PRT

<213> Enterobacter cloacae

<400> 10238

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Arg Trp Trp Arg Ala Ser Arg Val Thr Ser Asp Thr Pro Leu Ser Cys
1           5           10           15
Arg Val Ser Leu Arg Leu Pro Gly Leu Gln Leu Pro Asp Arg Gly Cys
20           25           30
Asp Ala Pro Pro Leu Phe Phe Asn Leu Ala Arg Leu Thr Asn Asn Leu
35           40           45
Ala Asp Ala Gly Lys Arg Phe Ser Cys Ala Pro Val Arg Ile Thr Leu
50           55           60
Thr Leu His Asn Lys His Asn Lys Met Arg Ser Ala Met Gly Ser Asn
65           70           75           80
Ser Ser Phe Ser Ala Arg Arg Thr Ala Leu Ala Met Ala Val Ala Leu

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				85					90					95	
Cys	Cys	Ala	Trp	Gln	Ser	Pro	Val	Tyr	Ala	His	Gly	Ser	Glu	Ala	His
		100						105					110		
Met	Val	Pro	Met	Asp	Lys	Thr	Leu	Gln	Ala	Phe	Gly	Ala	Asp	Val	Gln
		115					120					125			
Trp	Asp	Asp	Tyr	Ala	Gln	Met	Phe	Thr	Ile	Val	Lys	Asp	Gly	Ala	Phe
		130				135					140				
Val	Lys	Val	Lys	Pro	Gly	Ala	Asn	Thr	Ala	Ile	Val	Asn	Gly	Lys	Pro
145					150					155					160
Leu	Thr	Leu	Gln	Val	Pro	Val	Val	Met	Lys	Asn	Asn	Lys	Ala	Phe	Ile
				165					170					175	
Pro	Glu	Thr	Phe	Ile	Asn	Asp	Val	Phe	Gln	Ser	Gly	Leu	Asp	Gln	Thr
			180					185					190		
Phe	Gln	Val	Glu	Lys	Ser	Pro	His	Pro	Leu	Asn	Ala	Leu	Thr	Ala	Asp
		195					200					205			
Glu	Ile	Asn	Gln	Ala	Val	Ala	Ile	Val	Lys	Ala	Ser	Ala	Asp	Phe	Lys
		210				215					220				
Pro	Asn	Thr	Arg	Phe	Thr	Gln	Ile	Ala	Leu	Ala	Glu	Pro	Glu	Lys	Ala
225					230					235					240
Lys	Val	Trp	Asp	Phe	Val	Leu	Asn	Gly	Thr	Ala	Val	Asp	Ala	Pro	Arg
				245				250						255	
Gln	Ala	Asn	Ile	Ile	Met	Leu	Asp	Gly	Lys	His	Ile	Ile	Glu	Ser	Arg
			260					265					270		
Val	Asp	Leu	Lys	Glu	Lys	Lys	Ile	Leu	Arg	Trp	Glu	Pro	Ile	Lys	Asp
		275					280					285			
Ala	His	Gly	Met	Val	Leu	Leu	Asp	Asp	Phe	Asn	Thr	Val	Gln	Gln	Ile
		290				295					300				
Ile	Asn	Glu	Ser	Pro	Glu	Phe	Ala	Ala	Val	Leu	Lys	Lys	Arg	Gly	Ile
305					310				315					320	
Thr	Asp	Pro	Lys	Lys	Val	Ile	Thr	Thr	Pro	Leu	Thr	Val	Gly	Phe	Phe
				325					330					335	
Asp	Gly	Lys	Asp	Gly	Leu	Lys	Gln	Glu	Asp	Arg	Leu	Leu	Lys	Val	Ile
			340					345					350		
Ser	Tyr	Leu	Asp	Val	Gly	Asp	Gly	Asn	Tyr	Trp	Ala	His	Pro	Ile	Glu
		355					360					365			
Asn	Leu	Val	Ala	Val	Val	Asp	Leu	Glu	Gln	Lys	Lys	Ile	Gln	Lys	Ile
		370				375					380				
Glu	Glu	Gly	Pro	Val	Val	Pro	Val	Pro	Leu	Thr	Pro	Arg	Pro	Tyr	Asp
385					390					395					400
Gly	Arg	Asp	Arg	Val	Glu	Thr	Val	Lys	Lys	Pro	Leu	Glu	Ile	Ile	Glu
				405					410					415	
Pro	Glu	Gly	Lys	Asn	Tyr	Thr	Ile	Thr	Gly	Asp	Arg	Val	His	Trp	Gln
			420					425					430		
Asn	Trp	Asp	Phe	His	Leu	Ser	Leu	Asp	Ser	Arg	Val	Gly	Pro	Ile	Ile
		435													

Asp Trp Val Phe His Glu Asn Gly Thr Ile Gly Ile Asp Ala Gly Ala
 580 585 590
 Thr Gly Ile Glu Ala Val Lys Gly Val Gln Thr Lys Thr Met His Asp
 595 600 605
 Ala Thr Ala Lys Asp Asp Thr Arg Tyr Gly Thr Leu Ile Asp His Asn
 610 615 620
 Ile Val Gly Thr Thr His Gln His Ile Tyr Asn Phe Arg Leu Asp Met
 625 630 635 640
 Asp Val Asp Gly Ile Asn Asn Lys Leu Val Ala Met Asp Pro Asp Val
 645 650 655
 Lys Pro Asn Thr Ala Gly Gly Pro Arg Thr Ser Thr Met Gln Val Asn
 660 665 670
 Gln Tyr Asp Ile Asp Thr Glu Gln Gln Ala Ala Gln Lys Phe Asp Pro
 675 680 685
 Gly Thr Ile Arg Leu Leu Ser Asn Thr Ser Lys Glu Asn Arg Met Gly
 690 695 700
 Asn Pro Val Ser Tyr Gln Ile Ile Pro Tyr Ala Gly Gly Thr His Pro
 705 710 715 720
 Val Ala Ser Gly Ala Lys Phe Ala Pro Asp Glu Trp Ile Tyr His Arg
 725 730 735
 Leu Ser Phe Met Asp Lys Gln Leu Trp Val Thr Arg Tyr His Pro Asp
 740 745 750
 Glu Met Tyr Pro Glu Gly Lys Tyr Pro Asn Arg Ser Thr His Asp Thr
 755 760 765
 Gly Leu Gly Gln Tyr Ser Lys Asp Asn Glu Ser Leu Asn Asp Gln Asp
 770 775 780
 Asn Val Ile Trp Met Thr Thr Gly Thr Thr His Val Ala Arg Ala Glu
 785 790 795 800
 Glu Trp Pro Ile Met Pro Thr Glu Trp Val His Thr Leu Leu Lys Pro
 805 810 815
 Trp Asn Phe Phe Asp Glu Thr Pro Thr Leu Gly Lys Lys Lys Glu Gln
 820 825 830
 Lys

<210> 10239

<211> 679

<212> PRT

<213> Enterobacter cloacae

<400> 10239

His Thr Phe Thr Arg Ile Arg Ser Leu His Lys Gln Arg His Ser Leu
 1 5 10 15
 Leu Arg Gly Phe Arg Met Arg Ile Asn Glu Ile Val Arg Ser Leu Ala
 20 25 30
 Leu Ala Gly Cys Phe Ile Ser Thr Ser Ser Ala Trp Ala Ala Glu Ala
 35 40 45
 Pro Lys Asp Ala Ser Ala Ala Thr Gln Gln Ala Asn Asn Ala Leu Phe
 50 55 60
 Asn Gln Leu Pro Phe Ser Asp Asn Thr Asp Phe Thr Asn Ala His Lys
 65 70 75 80
 Gly Phe Ile Ala Pro Leu Pro Gln Glu Ile Ile Lys Gly Glu Gln Gly
 85 90 95
 Asn Thr Val Trp Asp Pro Gln Gln Tyr Ala Phe Ile Lys Glu Gly Asp
 100 105 110
 Lys Ala Pro Asp Ser Val Asn Pro Ser Leu Trp Arg Gln Ser Gln Leu
 115 120 125
 Ile Asn Ile Ser Gly Leu Phe Glu Val Thr Glu Gly Val Tyr Gln Ile
 130 135 140
 Arg Asn Leu Asp Leu Ser Asn Met Thr Ile Ile Glu Gly Lys Glu Gly
 145 150 155 160

Ile	Thr	Val	Val	Asp	Pro	Leu	Val	Ser	Ala	Glu	Thr	Ala	Lys	Val	Gly
Met	Asp	Leu	Tyr	Tyr	Lys	Asn	Arg	Gly	Asn	Lys	Pro	Val	Val	Ala	Val
Ile	Tyr	Thr	His	Ser	His	Val	Asp	His	Tyr	Gly	Gly	Val	Arg	Gly	Val
Val	Asp	Glu	Ala	Asp	Val	Lys	Ser	Gly	Lys	Val	Lys	Val	Tyr	Ala	Pro
Ala	Gly	Phe	Met	Glu	Ala	Ala	Val	Ala	Glu	Asn	Ile	Met	Ala	Gly	Asn
225					230					235					240
Val	Met	Ser	Arg	Arg	Ala	Ser	Tyr	Met	Tyr	Gly	Asn	Leu	Leu	Lys	Pro
Asp	Ala	Lys	Gly	Gln	Val	Gly	Ala	Gly	Phe	Gly	Thr	Thr	Thr	Ser	Ala
Gly	Thr	Val	Thr	Leu	Ile	Ala	Pro	Thr	Asn	Ile	Ile	Glu	Lys	Asp	Gly
Gln	Lys	Glu	Val	Ile	Asp	Gly	Leu	Thr	Tyr	Asp	Phe	Met	Leu	Ala	Pro
Gly	Ser	Glu	Ala	Pro	Ser	Glu	Met	Leu	Trp	Tyr	Ile	Glu	Glu	Lys	Lys
305					310					315					320
Leu	Ile	Glu	Ser	Ala	Glu	Asp	Val	Thr	His	Thr	Leu	His	Asn	Thr	Tyr
Ser	Leu	Arg	Gly	Ala	Lys	Ile	Arg	Glu	Pro	Leu	Pro	Trp	Ser	Lys	Tyr
Ile	Asn	Gln	Ala	Ile	Val	Arg	Trp	Gly	Asp	Lys	Ala	Glu	Val	Ile	Met
Ala	Gln	His	His	Trp	Pro	Thr	Trp	Gly	Asn	Glu	Asn	Val	Val	Asn	Leu
Leu	Lys	Ser	Gln	Arg	Asp	Leu	Tyr	Arg	Tyr	Ile	Asn	Asp	Gln	Thr	Leu
385					390					395					400
Arg	Met	Ala	Asn	Glu	Gly	Leu	Thr	Arg	Asp	Glu	Ile	Ala	Ala	Asn	Phe
Lys	Leu	Pro	Asn	Ser	Leu	Ala	Asn	Thr	Trp	Ala	Asn	Arg	Gly	Tyr	Tyr
Gly	Ser	Val	Ser	His	Asp	Val	Lys	Ala	Thr	Tyr	Val	Leu	Tyr	Leu	Gly
Trp	Phe	Asp	Gly	Asn	Pro	Ala	Thr	Leu	Asp	Glu	Leu	Pro	Pro	Glu	Glu
Ala	Ala	Lys	Lys	Phe	Val	Glu	Tyr	Met	Gly	Gly	Ala	Asp	Ala	Ile	Leu
465					470					475					480
Ser	Lys	Ala	Lys	Thr	Asp	Phe	Asp	Gln	Gly	Asn	Tyr	Arg	Trp	Val	Ala
Gln	Val	Val	Ser	Lys	Val	Val	Phe	Ala	Asp	Pro	Asn	Asn	Gln	Ala	Ala
Arg	Asn	Leu	Glu	Ala	Asp	Ala	Leu	Glu	Gln	Leu	Gly	Tyr	Gln	Ala	Glu
Ser	Gly	Pro	Trp	Arg	Asn	Phe	Tyr	Leu	Thr	Gly	Ala	Gln	Glu	Leu	Arg
Asn	Gly	Val	Val	Lys	Gly	Pro	Thr	Pro	Asn	Thr	Ala	Ser	Pro	Asp	Thr
545					550					555					560
Val	Arg	Ala	Met	Thr	Pro	Glu	Met	Phe	Phe	Asp	Tyr	Leu	Ala	Val	His
Ile	Asn	Gly	Glu	Lys	Ala	Ala	Asp	Ala	Lys	Ser	Val	Phe	Asn	Ile	Asp
Leu	Gly	Ser	Asp	Gly	Gly	Lys	Tyr	Lys	Leu	Glu	Leu	Glu	Asn	Gly	Val
Leu	Asn	His	Thr	Ala	Asn	Ala	Glu	Ala	Lys	Asp	Ala	Asp	Ala	Thr	Val
Thr	Leu	Asn	Arg	Asp	Thr	Leu	Asn	Lys	Ile	Ile	Leu	Lys	Glu	Val	Thr
625					630					635					640
Leu	Arg	Gln	Ala	Gln	Asp	Asn	Gly	Asp	Ile	Lys	Val	Thr	Gly	Asp	Ala

645 650 655
 Ala Lys Leu Asp Ala Met Leu Gly Tyr Met Asp Lys Phe Glu Phe Trp
 660 665 670
 Phe Asn Ile Val Thr Pro
 675

<210> 10240
 <211> 386
 <212> PRT
 <213> Enterobacter cloacae

<400> 10240
 Arg Gln His Ser Arg Ala Glu Val Pro Pro Ala Gln Gly Lys Phe Ser
 1 5 10 15
 Ser Met Glu Lys Arg His Pro Ala Thr Pro Glu Pro Ala Thr Trp Pro
 20 25 30
 Thr Arg Lys Ser Met Val Val His Gly Leu Ala Val Asn Leu Pro Trp
 35 40 45
 Leu Ala Phe Val Asn Ala Ser Phe Ala Leu Met Val Leu Leu Arg Asn
 50 55 60
 Ser Leu Phe Gly His Ile Asp Ala Leu Leu His Ile Ser Pro Pro Leu
 65 70 75 80
 Arg Gln Met Ile Asp Ala Ser Met Leu Gly Val Val Ile Leu Ser Val
 85 90 95
 Ala Leu Val Ile Met Ala Trp Arg His Ile Arg Gly Val Ser Ala Val
 100 105 110
 Leu Phe Met Cys Ser Leu Leu Trp Ser Ile Ser Cys Tyr Trp Phe Ile
 115 120 125
 Asn Val Leu His Leu Pro His Pro Trp Pro Ile Phe Val Thr Leu Leu
 130 135 140
 Met Ala Gly Met Thr Ala Leu Tyr Phe His Pro Val Ala Leu Leu Cys
 145 150 155 160
 Phe Thr Val Pro Leu Trp Ile Ser Leu Pro Val Ala Ser Met Leu Leu
 165 170 175
 Asn Gln Glu Ile Asn Tyr Arg Phe Ala Gly Leu Trp Val Val Phe Thr
 180 185 190
 Phe Ile Leu Val Cys Gly Arg Tyr Ile Leu Leu Ser Trp Phe Glu Glu
 195 200 205
 Ala Trp Arg Arg Asn Gln Gln Asn Gln Arg Leu Ile Ser Arg Leu Asp
 210 215 220
 Ala Leu Ala His Gln Asp Pro Leu Thr Lys Thr Ala Asn Arg Arg Ala
 225 230 235 240
 Met Glu Leu Val Leu Glu Asn Ala Val Glu Gln Gly Lys Arg Phe Ala
 245 250 255
 Val Leu Met Leu Asp Val Asp Tyr Phe Lys Leu Tyr Asn Asp Thr Tyr
 260 265 270
 Gly His Gln Ala Gly Asp Ala Cys Leu Ala Arg Val Ala Glu Val Leu
 275 280 285
 Asn Thr Ser Val Arg Thr Pro Glu Asp Val Val Ser Arg Tyr Gly Gly
 290 295 300
 Glu Glu Phe Val Val Ile Leu Phe Asp Cys Glu Glu Ser Val Ala Glu
 305 310 315 320
 Lys Val Ala Ala Arg Ile Gln Ala Gly Leu Arg Thr Ala Ala Ile Ala
 325 330 335
 His Ser Ala Ser Lys Val Ser Glu Cys Val Thr Val Ser Met Gly Ile
 340 345 350
 Ala Gly Tyr Thr Ala Gly Leu Ala Gly Pro Glu Ile Ile Ala Arg Ala
 355 360 365
 Asp Ala Ala Leu Tyr Arg Ala Lys Glu Ala Gly Arg Asp Arg Trp Ser
 370 375 380
 Arg

385

<210> 10241

<211> 146

<212> PRT

<213> *Enterobacter cloacae*

<400> 10241

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Phe Arg Lys Leu Pro Val Ile Ser Pro Ser Ile Thr His Ala Gly Ser
1      5      10      15
Ala Ser Phe Ser Thr Met Ala Gly Phe Leu Pro Pro Ser Ser Val
20      25      30
Thr Pro Val Ser Val Ser Ala Ala Thr Arg Ala Ile Cys Leu Pro Val
35      40      45
Ala Val Glu Pro Val Lys Leu Thr Leu Ala Met Arg Gly Cys Glu Val
50      55      60
Ser Ala Ala Pro Gln Thr Ala Pro Leu Pro Val Thr Thr Leu Asn Thr
65      70      75      80
Pro Ser Gly Ile Pro Ala Ser Leu Ala Ser Ser Ala Thr Arg Asn Arg
85      90      95
Val Ser Gly Val Val Ser Glu Gly Leu Ile Thr Met Glu Gln Pro Ala
100     105     110
Ala Ser Ala Gly Ile Thr Phe His Met Pro Ile Ile Ser Gly Lys Phe
115     120     125
His Gly Thr Ile Pro Ala Thr Thr Pro Thr Gly Ser Leu Arg Val His
130     135     140
Ala
145

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<210> 10242

<211> 317

<212> PRT

<213> *Enterobacter cloacae*

<400> 10242

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Met Gln Gln Cys Glu Asn Ser Asp Gly Ala Ala Arg Thr Ser Met Ala
1      5      10      15
Cys Ala Ser Glu Gln Asp Asn Phe Gln Gln Trp Leu Ala Gln Ile Asn
20      25      30
Gln Val Cys Gly Arg Phe Ala Ala Arg Pro Leu Glu Gly Ala Phe Leu
35      40      45
Gly Glu Leu Glu Thr Ser Tyr Thr Gln Ser Leu Lys Leu Ser Thr Val
50      55      60
Thr Ala Ala Gly Val Asn Leu Phe Arg Thr Arg Gln Glu Ile Lys Asn
65      70      75      80
Gly Asn Asp Ala Trp Phe Tyr Thr Val Phe Gln Leu Glu Gly Ser Ala
85      90      95
Gly Ile Glu Gln Asp Asn Gln Arg Ala Met Leu Lys Ala Gly Asp Ile
100     105     110
Thr Leu Ile Asp Ala Ser Arg Pro Cys Ser Ile Tyr Trp Gln Glu Arg
115     120     125
Ser Arg Gln Ile Ser Leu Leu Leu Pro Arg Gln Ile Ile Glu Gln His
130     135     140
Ala Arg Phe Gln Glu Val Arg Cys Ala Leu Pro Leu Ser Ser Ser Leu
145     150     155     160
Pro Thr Val Gln Leu Ser Tyr Arg Leu Leu Gln Glu Ser Met Gly Asn
165     170     175
Ala Asp Leu Ser Ala Ser Glu Ser Glu Ala Ala Leu Glu Ala Met Val
180     185     190
Cys Leu Leu Arg Pro Ala Phe Gln Gln Gln His Glu Val Leu Pro Arg
195     200     205

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Lys Glu Arg Gln Phe Arg His Val Leu Ser Leu Ile Asp Asp His Ile
 210 215 220
 Gln Ser Glu Ala Leu Arg Pro Glu Trp Ile Ala Ser Glu Ser Gly Met
 225 230 235 240
 Ser Val Arg Ser Leu Tyr Arg Met Phe Ala Gly Lys Gly Leu Val Val
 245 250 255
 Ala Gln Tyr Ile Lys Asn Arg Arg Leu Asp Leu Cys Ala Gln Ala Leu
 260 265 270
 Arg Ser Ile Ser Asp Asp Glu Lys Leu Ala Gly Ile Gly Tyr Ser Trp
 275 280 285
 Gly Phe Thr Asp His Ser His Phe Ser Thr Ala Phe Lys Gln Arg Phe
 290 295 300
 Gly Val Ser Pro Gly Glu Tyr Arg Lys Arg Tyr Arg
 305 310 315

<210> 10243

<211> 340

<212> PRT

<213> Enterobacter cloacae

<400> 10243

Arg Gly Ser Lys Ile Thr Gly Glu Ser Leu Met Lys Leu Ala Val Tyr
 1 5 10 15
 Ser Thr Lys Gln Tyr Asp Lys Lys Tyr Leu Gln His Val Asn Glu Thr
 20 25 30
 Tyr Gly Phe Asp Leu Glu Phe Phe Asp Phe Leu Leu Thr Glu Lys Thr
 35 40 45
 Ala Lys Thr Ala His Gly Cys Glu Gly Val Cys Ile Phe Val Asn Asp
 50 55 60
 Asp Gly Ser Arg Pro Val Leu Glu Glu Leu Lys Lys Gln Gly Val Lys
 65 70 75 80
 Tyr Ile Ala Leu Arg Cys Ala Gly Phe Asn Asn Val Asp Leu Asp Ala
 85 90 95
 Ala Lys Glu Leu Gly Leu Lys Val Val Arg Val Pro Ala Tyr Ser Pro
 100 105 110
 Glu Ala Val Ala Glu His Ala Val Gly Met Met Met Ser Leu Asn Arg
 115 120 125
 Arg Ile His Arg Ala Tyr Gln Arg Thr Arg Asp Ala Asn Phe Ser Leu
 130 135 140
 Glu Gly Leu Thr Gly Phe Thr Met Tyr Gly Lys Thr Ala Gly Val Ile
 145 150 155 160
 Gly Thr Gly Lys Ile Gly Val Ala Ala Leu Arg Ile Leu Lys Gly Phe
 165 170 175
 Gly Met Arg Leu Leu Ala Phe Asp Pro Tyr Pro Ser Ala Ala Ala Leu
 180 185 190
 Glu Leu Gly Val Glu Tyr Val Asp Leu Lys Thr Leu Phe Ser Gln Ser
 195 200 205
 Asp Val Ile Ser Leu His Cys Pro Leu Thr Pro Glu Asn Tyr His Leu
 210 215 220
 Leu Asn Gln Ser Ala Phe Asp Gln Met Lys Asp Gly Val Met Ile Ile
 225 230 235 240
 Asn Thr Ser Arg Gly Gly Leu Ile Asp Ser Gln Ala Ala Ile Glu Ala
 245 250 255
 Leu Lys Thr Gln Lys Ile Gly Ala Leu Gly Met Asp Val Tyr Glu Asn
 260 265 270
 Glu Arg Asp Leu Phe Phe Glu Asp Lys Ser Asn Asp Val Ile Gln Asp
 275 280 285
 Asp Val Phe Arg Arg Leu Ser Ala Cys His Asn Val Leu Phe Thr Gly
 290 295 300
 His Gln Ala Phe Leu Thr Ala Glu Ala Leu Ile Ser Ile Ser Glu Thr
 305 310 315 320

Thr Leu Gly Asn Leu Gln Gln Leu Asp Lys Gly Glu Ala Cys Pro Asn
 325 330 335
 Ala Ile Val
 340

<210> 10244
 <211> 280
 <212> PRT
 <213> Enterobacter cloacae

<400> 10244
 Asn Met Ala Phe Val Thr Thr Lys Asp Gly Val Ser Ile Tyr Tyr Lys
 1 5 10 15
 Asp Trp Gly Pro Lys Asp Ala Gln Pro Ile Val Phe His His Gly Trp
 20 25 30
 Pro Leu Ser Ala Asp Asp Trp Asp Asn Gln Met Leu Phe Phe Leu Ala
 35 40 45
 Glu Gly Phe Arg Val Ile Ala Leu Asp Arg Arg Gly His Gly Arg Ser
 50 55 60
 Asp Gln Val Ser Glu Gly His Asp Met Asp His Tyr Ala Ser Asp Ala
 65 70 75 80
 Ser Ala Val Val Glu Ser Leu Asp Leu Arg Asn Ala Val His Val Gly
 85 90 95
 His Ser Thr Gly Gly Gly Gln Val Ala Arg Tyr Val Ala Lys Tyr Gly
 100 105 110
 Gln Pro Gln Gly Arg Val Ala Lys Ala Val Leu Val Ser Ala Val Pro
 115 120 125
 Pro Leu Met Val Lys Ser Asp Thr Asn Pro Gly Gly Thr Pro Ile Glu
 130 135 140
 Val Phe Asp Gly Phe Arg Gln Ala Leu Ala Ala Asn Arg Ala Gln Phe
 145 150 155 160
 Tyr Leu Asp Val Ala Ser Gly Pro Phe Tyr Gly Phe Asn Arg Asp Gly
 165 170 175
 Ala Glu Val Ser Gln Gly Thr Ile Gln Asn Trp Trp Arg Gln Gly Met
 180 185 190
 Ile Gly Ser Ala Lys Ala His Tyr Glu Gly Ile Lys Ala Phe Ser Glu
 195 200 205
 Thr Asp Gln Thr Asp Asp Leu Lys Ala Ile Thr Val Pro Val Leu Val
 210 215 220
 Leu Gln Gly Asp Asp Asp Gln Val Val Pro Tyr Lys Asn Ala Ala Leu
 225 230 235 240
 Leu Gln Asp Lys Leu Leu Ala Asn Ser Glu Leu Lys Ile Tyr Pro Gly
 245 250 255
 Phe Pro His Gly Met His Thr Thr His Ala Asp Thr Ile Asn Ala Asp
 260 265 270
 Ile Leu Thr Phe Ile Arg Ser
 275 280

<210> 10245
 <211> 232
 <212> PRT
 <213> Enterobacter cloacae

<400> 10245
 Leu Glu Val Ser Met Cys Gly Arg Phe Ala Gln Ala Gln Thr Arg Glu
 1 5 10 15
 Glu Tyr Leu Ala Tyr Leu Ala Asp Glu Gly Glu Arg Asp Ile Ala Tyr
 20 25 30
 Asp Pro Glu Pro Ile Gly Arg Tyr Asn Val Ala Pro Gly Thr Lys Val
 35 40 45
 Leu Leu Leu Ser Glu Arg Asp Lys Gln Leu His Leu Asp Pro Val Phe

50	55	60
Trp Gly Tyr Ala Pro Gly	Trp Trp Asp Lys Ala	Pro Leu Ile Asn Ala
65	70	75
Arg Val Glu Thr Ala Ala	Thr Ser Arg Met Phe	Lys Pro Leu Trp Gln
85	90	95
His Gly Arg Ala Ile Cys	Phe Ala Asp Gly Trp	Phe Glu Trp Lys Lys
100	105	110
Glu Gly Asp Lys Lys Gln	Pro Tyr Phe Ile His	Arg Ala Asp Gly Gln
115	120	125
Pro Ile Phe Met Ala Ala	Ile Gly Ser Thr Pro	Phe Glu Arg Gly Asp
130	135	140
Glu Ala Glu Gly Phe Leu	Ile Val Thr Ser Ala	Ala Asp Lys Gly Leu
145	150	155
Ile Asp Ile His Asp Arg	Arg Pro Leu Val Leu	Ser Pro Glu Ala Ala
165	170	175
Arg Glu Trp Met Arg Gln	Asp Val Gly Gly Lys	Lys Ala Glu Glu Ile
180	185	190
Ile Ala Asp Gly Thr Val	Pro Ala Asp Glu Phe	Ile Trp His Ala Val
195	200	205
Thr Arg Ala Val Gly Asn	Val Lys Asn Gln Gly	Ala Glu Leu Ile Glu
210	215	220
Val Ala His Lys Met Glu	Lys	
225	230	

<210> 10246

<211> 284

<212> PRT

<213> Enterobacter cloacae

<400> 10246

Trp Glu Ala Gly Arg Tyr	Arg Tyr Lys Leu Arg	Asn His Phe Gln Val
1	5	10
Glu Gly Met Ile Leu Asn	Asp Ile Ala Ile	Ile Ala Leu Ala Gly Phe
20	25	30
Thr Thr Gly Ile Thr Thr	Val Leu Phe Gly Phe	Gly Gly Gly Phe Val
35	40	45
Val Val Pro Phe Val Tyr	Gln Leu Met Leu Arg	Gln Thr Glu Leu Ala
50	55	60
Leu Asn Ala Met His Ile	Ala Val Ala Thr Ser	Thr Ser Val Met Ile
65	70	75
Phe Asn Ala Gly Trp Val	Thr Tyr Arg Asn Trp	Arg Ala Cys Glu Leu
85	90	95
Ser Ser Gln Met Leu Phe	Pro Leu Leu Trp Phe	Ile Ala Ile Gly Ala
100	105	110
Ile Val Gly Ser Cys Leu	Ala Gly Ile Phe Ser	Glu Ser Val Val Arg
115	120	125
Ala Leu Phe Ile Phe Tyr	Met Leu Thr Thr Ile	Ser Asp Cys Leu Leu
130	135	140
Arg Lys Gly Phe Leu Gly	Gly Ser Ser Leu Arg	Arg Leu Ser Phe Pro
145	150	155
Val Val Thr Gly Gly Gly	Val Thr Ile Gly Met	Ile Ala Ala Leu Leu
165	170	175
Gly Val Gly Gly Ser Val	Met Thr Val Pro Leu	Leu Arg Arg His Gly
180	185	190
Tyr Ala Met Arg Glu Cys	Ile Ser Ala Ser Asn	Pro Leu Ser Leu Pro
195	200	205
Val Ala Leu Cys Gly Ala	Val Thr Tyr Ala Val	Ile Gly Trp Gln Thr
210	215	220
Ile Pro Val Lys Gly Phe	Leu Gly Phe Ile Asn	Leu Lys Ile Leu Gly
225	230	235
Met Leu Val Leu Thr Gly	Trp Ala Gly Ile Val	Phe Ser Arg Arg Val

		245					250			255
Ile	Pro	Ala	Val	Pro	Asp	Ile	Trp	His	Ala	Arg
		260						265		
Leu	Phe	Leu	Val	Leu	Leu	Ala	Met	Leu	Phe	Gln
		275					280			

<210> 10247

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 10247

His	Pro	Ala	Leu	Ser	Arg	Ser	Ser	His	Trp	Pro	His	Gly	Ser	Thr	Val
1			5					10					15		
Met	Ser	Thr	Pro	Cys	Asp	Val	Lys	Leu	Arg	Pro	Leu	Glu	Arg	Glu	Asp
		20					25				30				
Leu	Arg	Phe	Val	His	Gln	Leu	Asp	Asn	Asn	Ala	Ser	Val	Met	Arg	Tyr
	35				40				45						
Trp	Phe	Glu	Glu	Pro	Tyr	Glu	Ala	Phe	Val	Glu	Leu	Ser	Asp	Leu	Tyr
	50				55				60						
Asp	Lys	His	Ile	His	Asp	Gln	Ser	Glu	Arg	Arg	Phe	Val	Val	Glu	Cys
65				70				75					80		
Glu	Gly	Glu	Lys	Ala	Gly	Leu	Val	Glu	Leu	Val	Glu	Ile	Asn	His	Val
			85			90						95			
His	Arg	Arg	Ala	Glu	Phe	Gln	Ile	Ile	Ile	Ser	Pro	Glu	His	Gln	Gly
		100				105						110			
Lys	Gly	Leu	Ala	Ser	Arg	Ala	Ala	Lys	Leu	Ala	Met	Asp	Tyr	Gly	Phe
	115				120				125						
Asn	Val	Leu	Asn	Leu	Tyr	Lys	Leu	Tyr	Leu	Ile	Val	Asp	Lys	Glu	Asn
	130				135				140						
Glu	Lys	Ala	Ile	His	Ile	Tyr	Arg	Lys	Leu	Gly	Phe	Met	Val	Glu	Gly
145				150				155						160	
Glu	Leu	Ile	His	Glu	Phe	Phe	Ile	Asn	Gly	Glu	Tyr	Arg	Asn	Thr	Ile
			165				170						175		
Arg	Met	Cys	Ile	Phe	Gln	His	Gln	His	Leu	Ala	Gly	His	Lys	Ser	Ser
		180				185						190			
Ser	Ala	Ser	Leu	Leu	Lys	Pro	Thr	Ala	Gln						
	195					200									

<210> 10248

<211> 775

<212> PRT

<213> Enterobacter cloacae

<400> 10248

Val	Met	Ser	Glu	Val	Glu	His	His	Gly	Gly	Ile	Ser	Arg	Arg	Thr	Leu
1			5					10						15	
Val	Lys	Ser	Thr	Ala	Ile	Gly	Ser	Leu	Ala	Leu	Ala	Ala	Gly	Gly	Ile
		20					25					30			
Ala	Leu	Pro	Phe	Gly	Leu	Lys	Ser	Ala	Ala	Ala	Ala	Val	Gln	Ser	Ala
	35					40					45				
Ile	Gln	Pro	Ala	Glu	Asp	Lys	Val	Val	Trp	Gly	Ala	Cys	Ser	Val	Asn
	50				55				60						
Cys	Gly	Ser	Arg	Cys	Ala	Leu	Arg	Leu	His	Val	Arg	Asp	Asp	Glu	Val
65				70				75						80	
Tyr	Trp	Val	Glu	Thr	Asp	Asn	Thr	Gly	Glu	Asp	Val	Tyr	Gly	Asn	His
		85				90							95		
Gln	Val	Arg	Ala	Cys	Leu	Arg	Gly	Arg	Ser	Ile	Arg	Arg	Arg	Ile	Asn
	100					105						110			
His	Pro	Asp	Arg	Leu	Asn	Tyr	Pro	Met	Lys	Arg	Val	Gly	Lys	Arg	Gly
	115					120						125			

Glu Gly Lys Phe Glu Arg Ile Thr Trp Glu Glu Ala Leu Asp Thr Ile
 130 135 140
 Ala Ala Ser Leu Lys Ser Val Val Glu Lys Tyr Gly Asn Glu Ala Val
 145 150 155 160
 Tyr Ile Asn Tyr Ser Ser Gly Ile Val Gly Gly Asn Ile Thr Arg Ser
 165 170 175
 Ser Pro Tyr Ala Ser Leu Val Ala Arg Leu Met Asn Cys Tyr Gly Gly
 180 185 190
 Phe Leu Ser His Tyr Gly Thr Tyr Ser Thr Ala Gln Ile Ala Cys Ala
 195 200 205
 Met Pro Tyr Thr Tyr Gly Ser Asn Asp Gly Asn Ser Thr Ser Asp Ile
 210 215 220
 Glu Asn Thr Lys Leu Val Val Met Phe Gly Asn Asn Pro Ala Glu Thr
 225 230 235 240
 Arg Met Ser Gly Gly Gly Ile Thr Tyr Phe Leu Glu Gln Ala Arg Glu
 245 250 255
 Arg Ser Asn Ala Arg Met Ile Val Ile Asp Pro Arg Tyr Thr Asp Thr
 260 265 270
 Ala Ala Gly Arg Glu Asp Glu Trp Ile Pro Ile Arg Pro Gly Thr Asp
 275 280 285
 Ala Ala Leu Val Ala Gly Ile Ala Trp Val Leu Ile Asn Glu Asn Leu
 290 295 300
 Val Asp Gln Pro Phe Leu Asp Lys Tyr Cys Val Gly Tyr Asp Glu Lys
 305 310 315 320
 Thr Leu Pro Glu Gly Ala Pro Ala Asn Gly His Tyr Lys Ala Tyr Ile
 325 330 335
 Leu Gly Gln Gly Asp Asp Lys Thr Ala Lys Thr Pro Asp Trp Ala Ser
 340 345 350
 Arg Ile Thr Gly Ile Pro Ala Glu Arg Ile Ile Lys Leu Ala Arg Glu
 355 360 365
 Ile Gly Ser Ala Lys Pro Ala Tyr Ile Cys Gln Gly Trp Gly Pro Gln
 370 375 380
 Arg Gln Ala Asn Gly Glu Gln Thr Ser Arg Ala Ile Ala Met Leu Pro
 385 390 395 400
 Ile Leu Thr Gly Asn Val Gly Ile Asn Gly Gly Asn Ser Gly Ala Arg
 405 410 415
 Glu Ser Thr Tyr Thr Ile Thr Ile Glu Arg Met Pro Leu Pro Glu Asn
 420 425 430
 Pro Val Lys Thr Gln Ile Ser Cys Phe Ser Trp Thr Asp Ala Ile Val
 435 440 445
 Arg Gly Pro Glu Met Thr Ala Leu Arg Asp Gly Val Arg Gly Lys Asp
 450 455 460
 Lys Leu Asp Val Pro Ile Lys Phe Ile Trp Asn Tyr Ala Gly Asn Thr
 465 470 475 480
 Ile Ile Asn Gln His Ser Asp Ile Asn Lys Thr His Asp Ile Leu Gln
 485 490 495
 Asp Glu Ser Lys Cys Glu Thr Ile Val Val Ile Asp Asn Phe Met Thr
 500 505 510
 Ser Ser Ala Lys Tyr Ala Asp Ile Val Leu Pro Asp Leu Met Thr Val
 515 520 525
 Glu Gln Glu Asp Ile Ile Pro Asn Asp Tyr Ala Gly Asn Met Gly Tyr
 530 535 540
 Leu Ile Phe Leu Gln Pro Val Thr Ala Pro Lys Phe Glu Arg Lys Pro
 545 550 555 560
 Ile Tyr Trp Ile Met Ser Glu Val Ala Lys Arg Leu Gly Pro Asp Ile
 565 570 575
 His Gln Lys Phe Thr Glu Gly Arg Thr Gln Glu Gln Trp Leu Arg Tyr
 580 585 590
 Leu Tyr Asp Lys Met Val Ala Lys Asp Pro Leu Leu Pro Ser Tyr Asp
 595 600 605
 Ala Leu Lys Lys Met Gly Ile Tyr Lys Arg Lys Asp Pro Asn Gly His

610		615		620
Phe Val Ala Tyr Lys	Lys Phe Arg Asp Asp	Pro Asp Ala Asn Pro Leu		
625	630	635		640
Lys Thr Pro Ser Gly	Lys Ile Glu Ile Tyr Ser Ser Lys Leu Ala Asp			
	645	650		655
Ile Ala Ala Thr Trp Glu Leu Gln Lys Asp Glu Thr Ile Thr Pro Leu				
	660	665		670
Pro Val Tyr Thr Ser Thr Phe Glu Gly Trp Asp Ala Pro Glu Arg Ser				
	675	680		685
Lys Phe Pro Leu Gln Leu Phe Gly Phe His Phe Lys Ala Arg Thr His				
	690	695		700
Ser Ser Tyr Gly Asn Val Asp Val Leu Gln Ala Ala Cys Arg Gln Glu				
705	710	715		720
Val Trp Leu Asn Pro Val Asp Ala Glu Gln Arg Gly Ile Lys Asn Gly				
	725	730		735
Asp Met Val Arg Val Phe Asn Asp Arg Gly Glu Val Arg Ile Ala Ala				
	740	745		750
Lys Val Thr Pro Arg Ile Met Pro Gly Val Ser Ala Met Gly Gln Gly				
	755	760		765
Ala Gly Met Thr Pro Thr				
770	775			

<210> 10249

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 10249

Pro Met Thr Thr	Gln Tyr Gly Phe Phe Ile Asp Ser Ser Arg Cys Thr
1	5 10 15
Gly Cys Lys Thr Cys Glu Leu Ala Cys Lys Asp Tyr Lys Asp Leu Thr	
	20 25 30
Pro Asp Val Ser Phe Arg Arg Ile Tyr Glu Tyr Ala Gly Gly Asp Trp	
	35 40 45
Gln Glu Asp Asn Gly Val Trp His Gln Asn Val Phe Ala Tyr Tyr Leu	
	50 55 60
Ser Ile Ala Cys Asn His Cys Glu Asp Pro Ala Cys Thr Lys Val Cys	
65	70 75 80
Pro Ser Gly Ala Met His Lys Arg Asp Asp Gly Phe Val Val Val Asp	
	85 90 95
Glu Asp Val Cys Ile Gly Cys Arg Tyr Cys His Met Ala Cys Pro Tyr	
	100 105 110
Gly Ala Pro Gln Tyr Asn Ala Ala Lys Gly His Met Thr Lys Cys Asp	
	115 120 125
Gly Cys His Ser Arg Val Ala Asp Gly Lys Lys Pro Ile Cys Val Glu	
	130 135 140
Ser Cys Pro Leu Arg Ala Leu Asp Phe Gly Pro Ile Glu Glu Leu Arg	
145	150 155 160
Lys Lys His Gly Gln Leu Ala Ala Val Ala Pro Leu Pro Ser Ala His	
	165 170 175
Phe Thr Lys Pro Ser Ile Val Ile Lys Pro Asn Ala Asn Ser Arg Pro	
	180 185 190
Thr Gly Asp Thr Thr Gly Tyr Leu Ala Asn Pro Lys Glu Val	
	195 200 205

<210> 10250

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 10250

```

Thr Asp Trp Pro Trp Ala Ile Leu Trp Ser Ala Tyr Asp Arg Arg Val
1      5      10      15
Ser Asn Cys Arg Leu Thr Gln Val Arg Gly Ala Thr Arg Ala Gln Val
      20      25      30
Arg Lys Val Val Met Asn Asp Val Ser His Arg Glu Ser Phe Ala Phe
      35      40      45
Ser Ala Arg Val Leu Gly Ala Leu Phe Tyr Phe Ala Pro Asp Ser Glu
      50      55      60
Gln Ile Ala Pro Leu Val Ser Ala Leu Thr Ala Gly Asp Trp Val Gln
65      70      75      80
Asp Trp Pro Leu Ala Glu Glu Asn Leu Leu Pro Val Ala Ser Met Phe
      85      90      95
Lys Thr Pro Ser Asp Glu Ala Leu Lys Asp Ala Trp Gln Arg Leu Phe
      100     105     110
Ile Gly Pro Tyr Ala Leu Pro Ala Pro Pro Trp Gly Ser Val Trp Leu
      115     120     125
Asp Arg Glu Ser Val Leu Phe Gly Asp Ser Thr Leu Ala Leu Arg Gln
      130     135     140
Trp Met Arg Glu Asn His Ile Ala Phe Glu Met Gln Gln Asn Glu Pro
145     150     155     160
Glu Asp His Phe Gly Thr Leu Leu Met Leu Ala Ala Trp Leu Ala Glu
      165     170     175
Asn Gly Arg Glu Thr Glu Arg Asp Gln Leu Leu Ala Trp His Leu Leu
      180     185     190
Pro Trp Ser Thr Arg Phe Leu Ser Val Phe Val Glu Asn Ala Ala His
      195     200     205
Pro Phe Tyr Thr Ala Leu Gly Lys Leu Ala Gln Leu Thr Leu Ala Glu
      210     215     220
Trp Gln Ser Thr Leu Leu Ile Pro Ile Val Glu Lys Thr Leu Tyr Arg
225     230     235     240

```

<210> 10251

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 10251

```

Glu Thr Arg Asn Pro Asp Ala Arg Val Ser Met Val Thr Thr Trp Asp
1      5      10      15
Lys Thr Phe Ala Glu Ser Asp Lys Val Asp His Arg Lys Val Thr Phe
      20      25      30
Glu Asn Arg Tyr Gly Ile Thr Leu Ala Gly Asp Leu Tyr Ile Pro Arg
      35      40      45
Asn Ser Gly Asp Gln Met Leu Ala Ser Leu Leu Val Val Lys Tyr
      50      55      60
Thr Tyr Val Tyr Thr Glu Ser Asn Pro Ile Pro Leu Gln Arg Ala Cys
65      70      75      80
Ile Leu Gly Arg Tyr Leu Cys Pro Pro Val Cys Ser Arg His Gln Gln
      85      90      95

```

<210> 10252

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 10252

Arg Met Arg Thr Gly Arg His Thr Ala Met His Pro Leu Leu Lys Arg

```

1           5           10           15
Ser Leu Leu Phe Val Gly Ala Ile Ile Val Val Leu Ala Leu Leu Thr
20           25           30
Trp Gly Ile Gly Leu Glu Thr Ile Lys Ala Arg Gln Val Asp Leu Ile
35           40           45
Tyr Leu Gly Gln Gln His Leu Ile Leu Val Phe Ser Ser Met Phe Phe
50           55           60
Ala Leu Leu Val Gly Ile Pro Ser Gly Ile Leu Leu Ser Arg Pro Ala
65           70           75           80
Ala Arg Gly Ile Ala Glu Tyr Val Met Gln Ile Phe Asn Val Gly Asn
85           90           95
Thr Leu Pro Pro Leu Ala Val Leu Ala Leu Ala Met Val Val Ile Gly
100          105          110
Ile Gly Asp Lys Pro Ala Ile Ile Ala Leu Phe Leu Ala Ser Leu Leu
115          120          125
Pro Ile Val Arg Asn Thr Tyr Ala Gly Leu Cys Ser Val Pro Ala Ser
130          135          140
Leu Leu Glu Ala Ala Asn Gly Ile Gly Met Thr Lys Trp Gln Arg Leu
145          150          155          160
Arg Gln Val Glu Ile Pro Asn Ala Trp Pro Val Met Leu Ser Gly Ile
165          170          175
Arg Ile Ala Thr Ala Ile Asn Val Gly Thr Ala Pro Leu Ala Phe Leu
180          185          190
Ile Gly Ala Ser Ser Tyr Gly Glu Leu Ile Phe Pro Gly Ile Tyr Leu
195          200          205
Asn Asp Phe Pro Thr Leu Ile Leu Gly Ala Ala Ala Thr Ala Leu Phe
210          215          220
Ala Leu Ile Leu Asp Thr Leu Leu Ala Ala Leu Gly Arg Leu Leu Ser
225          230          235          240
Pro His Leu Ala Arg
245

```

<210> 10253

<211> 304

<212> PRT

<213> Enterobacter cloacae

<400> 10253

```

Gln Gly Ala Ser Met Arg Leu Phe Ser Gly Leu Thr Ala Leu Cys Ala
1           5           10           15
Ala Ala Leu Phe Thr Ser Gln Ala Leu Ala Ala Pro Leu Ile Leu Ala
20           25           30
Thr Lys Ser Phe Thr Glu Gln His Ile Leu Ser Ala Met Thr Val Gln
35           40           45
Tyr Leu Gln Lys Lys Gly Phe Gln Val Gln Pro Gln Thr Asn Ile Ala
50           55           60
Thr Val Ile Ser Arg Asn Ala Met Ile Asn Lys Gln Ile Asp Met Thr
65           70           75           80
Trp Glu Tyr Thr Gly Thr Ser Leu Ile Ile Phe Asn His Ile Asn Lys
85           90           95
Arg Met Ser Pro Gln Glu Ser Tyr Glu Thr Val Lys Arg Leu Asp Ala
100          105          110
Lys His Gly Leu Val Trp Leu Lys Pro Ala Asp Met Asn Asn Thr Tyr
115          120          125
Ala Phe Ala Met Gln Arg Lys Arg Ala Glu Ala Glu His Ile Asn Thr
130          135          140
Met Ser Glu Met Val Ala Lys Ile Glu Gln Ile Arg Lys Thr Asp Pro
145          150          155          160
Asp Asn Asn Trp Leu Leu Gly Leu Asp Leu Glu Phe Ala Gly Arg Ser
165          170          175
Asp Gly Met Lys Pro Leu Gln Ala Ala Tyr Lys Met Glu Leu Asp Arg

```

Pro	Gln	Ile	Arg	Gln	Met	Asp	Pro	Gly	Leu	Val	Tyr	Asn	Ala	Val	Arg
	195						200					205			
Asp	Gly	Phe	Val	Asp	Ala	Gly	Leu	Ile	Tyr	Thr	Thr	Asp	Gly	Arg	Val
	210					215					220				
Lys	Gly	Phe	Asp	Leu	Lys	Val	Leu	Glu	Asp	Asp	Lys	Gly	Phe	Phe	Pro
	225				230				235						240
Ser	Tyr	Ala	Val	Thr	Pro	Val	Val	Arg	Lys	Asp	Thr	Leu	Glu	Ala	Asn
				245					250					255	
Pro	Gly	Leu	Glu	Glu	Ala	Leu	Asn	Thr	Leu	Ser	Ala	Gln	Leu	Asn	Asn
			260					265					270		
Asp	Val	Ile	Thr	Asp	Leu	Asn	Lys	Val	Asp	Ile	Asp	His	Gln	Ser	
		275					280				285				
Pro	Gln	Gln	Val	Ala	Arg	Asp	Phe	Leu	Arg	Ser	Lys	Gln	Leu	Leu	
	290					295					300				

<210> 10254

<211> 446

<212> PRT

<213> Enterobacter cloacae

<400> 10254

Thr	Glu	Tyr	Leu	His	Phe	Pro	Thr	Leu	Ile	Leu	Trp	Ser	Tyr	Pro	Ser
1				5					10					15	
Pro	Glu	Thr	Thr	Gly	Met	Phe	Lys	Gln	Gly	Leu	Cys	Val	Ser	Arg	Thr
			20					25					30		
Thr	Thr	Val	Asp	Ile	Ala	Pro	Ala	Ser	Asp	Ile	Asp	Asp	Leu	Pro	Ala
		35					40					45			
Ala	Pro	Gln	Pro	Val	Gln	Phe	Ile	Lys	Arg	Gly	Thr	Pro	Gln	Phe	Met
	50					55				60					
Arg	Val	Thr	Leu	Ala	Leu	Phe	Ser	Ala	Gly	Leu	Ala	Thr	Phe	Ala	Leu
					70					75					80
Leu	Tyr	Cys	Val	Gln	Pro	Ile	Leu	Pro	Val	Leu	Ser	His	Glu	Phe	Gly
				85				90					95		
Val	Ser	Pro	Ala	Ser	Ser	Ser	Ile	Ser	Leu	Ser	Ile	Ser	Thr	Gly	Met
			100					105					110		
Leu	Ala	Ile	Gly	Leu	Leu	Phe	Thr	Gly	Pro	Leu	Ser	Asp	Ala	Ile	Gly
		115					120					125			
Arg	Lys	Gln	Val	Met	Val	Thr	Ala	Leu	Met	Leu	Ala	Ser	Val	Cys	Thr
						135					140				
Leu	Leu	Ser	Thr	Met	Met	Thr	Ser	Trp	His	Gly	Ile	Leu	Ile	Met	Arg
				150						155					160
Ala	Leu	Ile	Gly	Leu	Ser	Leu	Ser	Gly	Val	Ala	Ala	Val	Gly	Met	Thr
				165					170					175	
Tyr	Leu	Ser	Glu	Glu	Ile	His	Pro	Ser	Phe	Val	Ala	Phe	Ser	Met	Gly
			180					185					190		
Leu	Tyr	Ile	Ser	Gly	Asn	Ser	Ile	Gly	Gly	Met	Ser	Gly	Arg	Leu	Leu
		195					200					205			
Ser	Gly	Val	Phe	Thr	Asp	Phe	Phe	Asn	Trp	Arg	Ile	Ala	Leu	Ala	Val
		210				215					220				
Ile	Gly	Cys	Phe	Ala	Leu	Ala	Ser	Ala	Leu	Met	Phe	Trp	Lys	Ile	Leu
				230						235					240
Pro	Glu	Ser	Arg	His	Phe	Arg	Pro	Thr	Ser	Leu	Arg	Pro	Lys	Thr	Leu
				245					250					255	
Phe	Ile	Asn	Phe	Arg	Leu	His	Trp	Arg	Asp	Gln	Gly	Leu	Pro	Arg	Leu
			260					265					270		
Phe	Leu	Thr	Gly	Phe	Leu	Leu	Met	Gly	Ser	Phe	Val	Thr	Leu	Phe	Asn
		275					280					285			
Tyr	Ile	Gly	Tyr	Arg	Leu	Met	Leu	Ser	Pro	Trp	His	Leu	Ser	Gln	Ala
		290				295					300				
Leu	Val	Gly	Leu	Leu	Ser	Val	Ala	Tyr	Leu	Thr	Gly	Thr	Trp	Ser	Ser

<210> 10256
 <211> 146
 <212> PRT
 <213> Enterobacter cloacae

<400> 10256
 Arg Gly Lys Ala Glu Ser Asp Ala Gly Asp Pro Ser Val Gln Thr Arg
 1 5 10 15
 Tyr Pro Val Val Asp Ala Arg Arg Asp Asp His Gly Leu Arg Ala Thr
 20 25 30
 Ala Ser Ala Leu Ser His Gly His Arg Gln Ser Gly Leu Ala His Asn
 35 40 45
 Pro Thr Gly Ile Ser Met Gln Lys Asn Ser Ile Val Ala Phe Arg Arg
 50 55 60
 Gly Tyr Arg Leu Gln Trp Glu Ala Ala Gln Asp Ser His Val Ile Leu
 65 70 75 80
 Tyr Pro Glu Gly Met Ala Lys Leu Asn Glu Thr Ala Ala Ala Ile Leu
 85 90 95
 Glu Leu Val Asp Gly Gln Arg Asp Ala Ala Ala Ile Ile Ala Ile Leu
 100 105 110
 Asn Glu Arg Phe Pro Glu Ala Gly Val Asp Asp Asp Val Val Glu
 115 120 125
 Phe Leu Gln Ile Ala Tyr Gln Gln Lys Trp Ile Ile Phe Arg Glu Pro
 130 135 140
 Glu
 145

<210> 10257
 <211> 766
 <212> PRT
 <213> Enterobacter cloacae

<400> 10257
 Asn Pro Gly Thr Val Thr Ile Met Thr Ile Arg Ile Val Glu Leu Ala
 1 5 10 15
 Gly Gly Leu Arg Ala Thr Leu Val His Gln Pro Gln Ala Thr Arg Ala
 20 25 30
 Ala Ala Leu Ala Arg Val Ser Ala Gly Ser His His Glu Pro Pro Arg
 35 40 45
 Phe Ala Gly Leu Ala His Leu Leu Glu His Leu Leu Phe Arg Gly Ser
 50 55 60
 Gln Arg Tyr Gln Gly Asp Asp Arg Leu Met Ala Trp Val Gln Arg Gln
 65 70 75 80
 Gly Gly Asn Val Asn Ala Thr Thr Leu Ala Arg His Ser Ala Phe Phe
 85 90 95
 Phe Asp Val Ala Ala Asp Asn Leu Ser Asp Gly Val Ala Arg Leu Arg
 100 105 110
 Asp Met Leu Gln Ala Pro Leu Leu Ser Arg Gln Asp Ile Gln Arg Glu
 115 120 125
 Val Ala Val Ile Asp Ala Glu Asn Arg Leu Ile Gln Gln His Asp Pro
 130 135 140
 Ala Arg Arg Glu Ala Ala Ala Arg His Ala Met Glu Gln Pro Glu Val
 145 150 155 160
 Phe Arg Arg Phe Gln Val Gly Ser His Asp Ser Leu Gly Gln Asp Thr
 165 170 175
 Gly Ser Leu His Ala Ala Leu Arg Gly Phe His Arg Arg Tyr Tyr Gly
 180 185 190
 Ala Arg His Leu Gln Leu Trp Leu Gln Gly Pro Gln Thr Leu Asp Ala
 195 200 205
 Leu Ala Glu Leu Ala His Thr Phe Ala Thr Gly Phe Ala Ser Gly Gly
 210 215 220

Val Pro Glu Ala Ala Pro Pro Leu Arg Leu Ser Ala Glu Ala Asp Tyr
 225 230 235 240
 Gln Leu Ala Val Thr Glu Arg Pro Ala Leu Trp Arg Cys Pro Leu Ile
 245 250 255
 Arg Lys Ser Asp Asn Val Thr Leu Leu Arg Glu Phe Leu Leu Asp Glu
 260 265 270
 Ala Pro Gly Ser Leu Ile Asp Gly Leu Arg Ala Arg Gly Leu Ala Glu
 275 280 285
 Glu Val Ser Leu Asp Trp Leu Tyr Gln Asp Asp Asp Tyr Gly Trp Leu
 290 295 300
 Ala Leu Thr Leu Asp Gly Glu Arg Pro Glu Ala Ile Asp Ala Gln Ile
 305 310 315 320
 Thr Arg Trp Leu Arg Ala Leu Gln Gln Thr Thr Gln Glu Gln Gln Arg
 325 330 335
 His Tyr Tyr Arg Leu Ala Gln Gln Arg Phe Ser Ala Leu Ser Pro Leu
 340 345 350
 Asp Gln Leu Arg Gln Arg Ala Phe Gly Phe Ala Pro Gly Ala Ala Pro
 355 360 365
 Val Asp Phe Ser Ala Phe Cys Ala Asp Leu Leu Ala Ala Pro Thr Ser
 370 375 380
 Tyr Leu Ala Cys Lys Lys Met Glu Thr Ala Glu Ile Ile Ala Ser Gln
 385 390 395 400
 Gly Phe Ala Leu Pro Leu Ser His Trp Arg Arg Gln Pro Val Ala Asp
 405 410 415
 Glu Ser Pro Ile Ala Phe Ser Phe Tyr Pro Gln Ala Thr Gln Tyr Ser
 420 425 430
 Ala Pro Ala Leu Thr Pro Glu Ala Val Pro Leu Leu His Leu Pro Ala
 435 440 445
 Gln Ala Gln Ala Pro Thr Leu Ile Leu Arg Arg Pro Phe Tyr Ser Arg
 450 455 460
 Val Ser Glu Ser Gln Gly Val Ala Ile Gly Lys Gln Leu Arg Pro Leu
 465 470 475 480
 Leu Ala Glu Met Arg His Ile Gly Ser Ser Gly Glu Trp Gln Thr Val
 485 490 495
 Asp Gly Ser Trp Gln Leu Thr Leu Arg Leu Pro Asp Ala Val Val Met
 500 505 510
 Ala Glu Pro Ile Ile Gly Ala Ile Ile Asp Arg Leu Ser Arg Pro Thr
 515 520 525
 Pro Ala Ile Thr Pro Ala Pro Asp Gly Ile Ala Ile Arg Gln Leu Leu
 530 535 540
 Lys Gln Leu Pro Glu Arg Leu Ala Ser Glu Pro Ser Arg Asn Gly Trp
 545 550 555 560
 Leu Ala Ala Leu Ala Gly Gly Ser Ala Gly His Ala His Gly Leu Ala
 565 570 575
 Arg Gln Leu Gly Leu Leu Arg Ala Pro Val Asn Ala Lys Pro Leu Pro
 580 585 590
 Leu Ser Asp Cys Pro Gly Gly Val Glu His Ile Pro His Ala Ser Ala
 595 600 605
 Asp Ser Ala Leu Leu Val Phe Ile Pro Leu Pro Pro Gly Ala Ser Leu
 610 615 620
 Ala Ala Leu Arg Leu Leu Ala Leu Cys Cys Glu Pro Arg Phe Phe Gln
 625 630 635 640
 Arg Leu Arg Val Glu Gln Gln Ile Gly Tyr Val Val Ser Cys Arg Tyr
 645 650 655
 Gln Arg Ile Ala Asp Arg Asp Gly Leu Leu Ala Leu Gln Ser Pro
 660 665 670
 Asp Arg Ser Pro Val Asn Leu Leu Gly Cys Cys Lys Arg Phe Leu Arg
 675 680 685
 Glu Leu Thr Leu Cys Asp Glu Ser Glu Phe Ser Leu Leu Arg Gln Gln
 690 695 700
 Leu Ala Thr Gln Ile Arg Ser Pro Met Asp Ala Ser Ala Thr Ala Val

705		710		715		720									
Ala	Ala	Leu	Arg	Gln	Arg	Tyr	Gly	Leu	Pro	Val	Leu	Thr	Pro	Gln	Ala
				725					730					735	
Ile	Asp	Ala	Leu	Gln	Pro	Asp	Glu	Ile	Val	Ala	Leu	Trp	Arg	Glu	Met
			740					745					750		
Thr	Arg	Arg	Arg	Arg	Arg	Trp	Arg	Val	Leu	Phe	Thr	Gly			
		755					760					765			

<210> 10258

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 10258

Ile	Lys	Cys	Gln	Gln	Ala	Thr	Gly	Gln	Pro	Pro	Gln	Ser	Asn	Thr	Lys
1				5				10						15	
Gln	Glu	Phe	Pro	Met	Ser	Lys	Val	Leu	Val	Leu	Lys	Ser	Ser	Ile	Leu
			20					25					30		
Ala	Gly	Tyr	Ser	Gln	Ser	Gly	Gln	Leu	Ser	Asp	Tyr	Phe	Val	Glu	Gln
		35				40						45			
Trp	Arg	Glu	Gln	His	Ser	Ala	Asp	Glu	Ile	Thr	Val	Arg	Asp	Leu	Ala
	50				55						60				
Ala	Asn	Pro	Ile	Pro	Val	Leu	Asp	Gly	Glu	Leu	Val	Gly	Ala	Leu	Arg
65					70				75						80
Pro	Ser	Asp	Ala	Pro	Leu	Thr	Pro	Arg	Gln	Gln	Glu	Ala	Leu	Ala	Leu
			85					90						95	
Ser	Asp	Glu	Leu	Ile	Ala	Glu	Leu	Gln	Ala	His	Asp	Val	Ile	Val	Ile
			100					105					110		
Asn	Ala	Pro	Met	Tyr	Asn	Phe	Asn	Ile	Pro	Thr	Gln	Leu	Lys	Asn	Tyr
		115					120					125			
Phe	Asp	Leu	Val	Ala	Arg	Ala	Gly	Val	Thr	Phe	Arg	Tyr	Thr	Glu	Asn
	130					135					140				
Gly	Pro	Glu	Gly	Leu	Val	Lys	Gly	Lys	Arg	Ala	Ile	Val	Leu	Thr	Ser
145					150					155					160
Arg	Gly	Gly	Ile	His	Lys	Asp	Thr	Pro	Thr	Asp	Leu	Val	Ala	Pro	Tyr
				165				170						175	
Met	Thr	Leu	Phe	Leu	Gly	Phe	Ile	Gly	Ile	Thr	Asp	Val	Asn	Phe	Val
		180					185						190		
Phe	Ala	Glu	Gly	Ile	Ala	Tyr	Gly	Pro	Glu	Val	Ala	Thr	Lys	Ala	Gln
		195					200					205			
Ser	Asp	Ala	Lys	Ala	Ala	Ile	Asp	Ser	Leu	Val	Ala	Ala			
	210					215					220				

<210> 10259

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 10259

Ile	Ser	Arg	Arg	Ser	Ser	Asn	Asn	Ala	Val	Asn	Met	Met	Asn	Lys	Ala
1				5					10					15	
Thr	Thr	Leu	Ser	Ala	Asn	Ile	Thr	Thr	Arg	Ser	Asn	Trp	His	Trp	Gln
			20					25					30		
Asp	Asn	Ile	Trp	Thr	Leu	Gly	Leu	Tyr	Gly	Thr	Ala	Val	Gly	Ala	Gly
	35					40						45			
Thr	Leu	Phe	Leu	Pro	Val	Glu	Ile	Gly	Thr	Arg	Gly	Pro	Val	Ile	Phe
	50					55					60				
Leu	Val	Met	Leu	Leu	Leu	Gly	Leu	Pro	Leu	Ser	Leu	Ile	Pro	His	Leu
65					70					75					80
Leu	Leu	Cys	Arg	Val	Tyr	Met	Arg	Glu	Glu	Lys	Thr	Glu	Asn	Gly	Thr
				85					90					95	

```

Leu Pro Ile Phe Gly Ser Phe Phe Ser Gly Arg Gly Glu Lys Leu Ile
      100      105      110
Thr Leu Phe Tyr Cys Val Thr Phe Pro Val Thr Leu Val Tyr Gly
      115      120      125
Val Ala Leu Ile Asn Ala Leu Ser Asn Leu Leu Val Glu His Leu His
      130      135      140
Ile Thr Ala Leu Ser Arg Gly Pro Leu Ser Phe Ile Val Val Ala Ala
145      150      155      160
Leu Tyr Val Val Leu Ser Lys Gly Arg Asp Arg Val Val Ala Ile Met
      165      170      175
Ser Ala Leu Ala Leu Pro Phe Ala Ala Ser Val Leu Leu Ile Ala Val
      180      185      190
Ser Leu Ile Pro Gly Trp His Leu Ser Asn Leu Thr Asp Thr Ala Ala
      195      200      205
Glu Met Asn Ala Thr Pro Leu Pro Val Thr Leu Lys Asn Ile Trp Leu
      210      215      220
Thr Leu Pro Leu Ile Thr Phe Ser Phe Cys Cys Ala Pro Met Val Ser
225      230      235      240
Pro Leu Thr Ser Tyr Tyr Arg Glu Arg Lys Ala Glu Gly Glu Lys Lys
      245      250      255
Ala Leu Phe Val Ile Arg Ile Ala Tyr Leu Ala Ile Phe Ala Ser Ile
      260      265      270
Leu Phe Phe Val Leu Ser Cys Val Leu Gly Ile Pro His Asp Asn Phe
      275      280      285
Val Arg Ala Lys Ala Glu Asn Leu Asn Val Leu Ser Val Met Lys Gly
      290      295      300
Asn Gly Asp Phe Ser Leu Ile Tyr His Ile Ala Pro Leu Ile Ala Ile
305      310      315      320
Ile Gly Met Thr Lys Ser Phe Leu Gly Val Gly Leu Ser Val Ala Gln
      325      330      335
Thr Phe Gly Gln Leu Ala Ala Ser Val Ser Gly Lys Lys Ala Ser Ala
      340      345      350
Ser Lys Arg Leu Ala Ser Leu Ala Leu Phe Leu Leu Thr Tyr Gly Ile
      355      360      365
Val Tyr Ala Asn Pro Asp Val Leu Ser Leu Ile Glu Met Phe Cys Gly
      370      375      380
Pro Leu Ile Ala Val Ile Leu Phe Leu Ile Pro Ala Tyr Leu Ile Tyr
385      390      395      400
Thr Arg Pro Ser Leu Ala Glu Leu Arg Gly Val Thr Gly Phe Leu Val
      405      410      415
Val Leu Gly Gly Leu Ala Thr Leu Ser Ala Leu Leu Trp Thr Met Leu
      420      425      430

```

<210> 10260

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 10260

```

Thr Ile Met Phe Val Glu Leu Val Tyr Asp Lys Arg Asn Val Gln Gly
1      5      10      15
Leu Glu Gly Ala Arg Glu Ile Ile Leu Thr Glu Leu Thr Lys Arg Val
      20      25      30
His Arg Ile Phe Pro Asp Ala Ser Val Thr Val Lys Pro Met Gln Ala
      35      40      45
Asn Gly Leu Asn Ser Asp Ala Ser Lys Ser Asp Arg Glu Lys Leu Asn
      50      55      60
Arg Met Leu Glu Glu Met Phe Glu Glu Ser Asp Met Trp Leu Ile Gln
65      70      75      80

```

Glu

<210> 10261

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 10261

```

Pro Thr Ser Phe Thr Pro Val His Gly Ile Ser Pro Gln Ser Arg Pro
1      5      10      15
Ala Cys Ala Ser Leu Gln Trp Arg His Thr Asn Val Ala Leu Thr Thr
20      25      30
Cys Arg Arg Ala Cys Tyr Val Ser Thr Thr Gln Lys Ala Leu Arg Asn
35      40      45
Ser Glu Met Ile Ile Leu Val Thr Gly Ala Thr Ala Gly Phe Gly Glu
50      55      60
Ser Ile Thr Arg Arg Phe Val Ala Asn Gly His Lys Val Ile Ala Thr
65      70      75
Gly Arg Arg Gln Glu Arg Leu Gln Glu Leu Lys Asp Glu Leu Gly Asp
85      90      95
Ser Ile Leu Thr Ala Gln Leu Asp Val Arg Asn Arg Ala Ala Ile Glu
100     105     110
Glu Met Ile Ala Asn Leu Pro Ala Glu Trp Arg Glu Ile Asp Val Leu
115     120     125
Val Asn Asn Ala Gly Leu Ala Leu Gly Met Glu Pro Ala His Lys Ala
130     135     140
Ser Leu Glu Asp Trp Glu Asn Met Ile Asp Thr Asn Asn Lys Gly Leu
145     150     155
Val Tyr Met Thr Arg Ala Val Leu Pro Gly Met Val Glu Arg Asn Arg
165     170     175
Gly His Ile Ile Asn Ile Gly Ser Thr Ala Gly Ser Trp Pro Tyr Ala
180     185     190
Gly Gly Asn Val Tyr Gly Ala Thr Lys Ala Phe Val Arg Gln Phe Ser
195     200     205
Leu Asn Leu Arg Thr Asp Leu His Gly Thr Ala Ile Arg Val Thr Asp
210     215     220
Val Glu Pro Gly Leu Val Gly Gly Thr Glu Phe Ser Asn Val Arg Phe
225     230     235
Lys Gly Asp Asp Ala Lys Ala Asp Lys Thr Tyr Glu Asn Ala Asn Ala
245     250     255
Leu Thr Pro Glu Asp Ile Thr Glu Thr Val Trp Trp Val Ala Asn Leu
260     265     270
Pro Lys His Val Asn Ile Asn Thr Val Glu Met Met Pro Val Ser Gln
275     280     285
Thr Tyr Ala Gly Leu Ser Val His Arg Gly
290     295

```

<210> 10262

<211> 236

<212> PRT

<213> Enterobacter cloacae

<400> 10262

```

Leu Ser Glu Lys Ser Gln Pro Met Ala Ala Glu Ser Gln Leu Asn Pro
1      5      10      15
Thr Gln Pro Val Asn Gln Gln Ile Tyr Arg Ile Leu Arg Arg Asp Ile
20      25      30
Val Arg Cys Leu Ile Pro Pro Gly Thr Pro Leu Ser Glu Lys Glu Val
35      40      45
Ser Val Arg Phe Asp Val Ser Arg Gln Pro Val Arg Glu Ala Phe Ile

```

50		55		60											
Lys	Leu	Ala	Glu	Asn	Gly	Leu	Ile	Gln	Ile	Arg	Pro	Gln	Arg	Gly	Ser
65					70					75					80
Tyr	Val	Asn	Lys	Ile	Ser	Leu	Ser	Gln	Val	Arg	Asn	Gly	Cys	Phe	Val
			85						90					95	
Arg	Gln	Ala	Ile	Glu	Cys	Ala	Val	Val	Arg	Arg	Ala	Ala	Ser	Leu	Ile
			100					105					110		
Asn	Asp	Asn	Gln	Cys	Tyr	Leu	Leu	Glu	Gln	Asn	Leu	His	Gln	Gln	Arg
		115					120					125			
Ile	Ala	Ile	Asp	Arg	Lys	Gln	Leu	Asn	Asp	Phe	Phe	Gln	Leu	Asp	Asp
	130						135				140				
Glu	Phe	His	Gln	Lys	Leu	Ala	Gln	Ile	Ala	Glu	Cys	Gln	Leu	Ala	Trp
145				150					155						160
Asp	Thr	Val	Glu	Asn	Ile	Lys	Ala	Thr	Ile	Asp	Arg	Val	Arg	Tyr	Met
			165					170						175	
Ser	Leu	Asp	His	Val	Ser	Pro	Pro	Glu	Met	Leu	Leu	Arg	Gln	His	His
			180					185					190		
Asp	Ile	Phe	Ser	Ala	Leu	Glu	Lys	Arg	Asp	Val	Glu	Ala	Val	Asp	Lys
		195					200					205			
Ala	Met	Thr	Leu	His	Leu	Gln	Glu	Ile	Ser	Glu	Ser	Val	Gln	Leu	Ile
	210						215				220				
Arg	Gln	Glu	Asn	Arg	Glu	Trp	Phe	Ser	Glu	Glu					
225				230					235						

<210> 10263

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 10263

Ser	Asp	Cys	Leu	His	Pro	Phe	Lys	Gly	Asn	Ala	Met	Thr	Thr	Leu	Ser
1				5					10					15	
Lys	Arg	Leu	Cys	Leu	Ala	Ala	Ala	Leu	Ala	Leu	Ser	Ser	Phe	Ala	Phe
			20					25					30		
Ala	Ala	Thr	Ala	Ser	Ala	Glu	Thr	Ser	Lys	Leu	Ile	Ile	Glu	Ser	Gly
		35					40					45			
Asp	Ser	Ala	Gln	Ser	Arg	Gln	Asn	Ala	Ala	Met	Asp	Lys	Glu	Gln	Trp
	50					55				60					
Asn	Asp	Thr	Arg	Ser	Leu	Arg	Gln	Lys	Val	Asn	Lys	Arg	Val	Glu	Lys
	65				70				75					80	
Glu	Trp	Asp	Lys	Glu	Asp	Val	Ala	Phe	Asp	Ala	Arg	Asp	Lys	Cys	Gln
			85					90						95	
Gln	Ser	Ala	Asn	Val	Asn	Ala	Tyr	Trp	Glu	Pro	Asn	Thr	Leu	Arg	Cys
			100					105					110		
Leu	Asp	Arg	Arg	Thr	Gly	Arg	Thr	Val	Ala	Pro					
		115					120								

<210> 10264

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 10264

Leu	Asn	Leu	Thr	Pro	Thr	Ala	Val	Arg	Arg	Gly	Thr	Pro	Pro	Ala	Thr
1				5					10					15	
Trp	Gln	Thr	Arg	Arg	Arg	Cys	Glu	Met	Gly	Ser	Gly	Trp	His	Glu	Trp
			20					25					30		
Pro	Leu	Met	Ile	Phe	Thr	Val	Phe	Gly	Gln	Cys	Val	Ala	Gly	Ala	Leu
		35					40					45			
Ile	Val	Met	Gly	Phe	Val	Trp	Leu	Lys	Glu	Asn	Asp	Asp	Lys	Ala	Arg
	50						55				60				

Met Arg Ile Val Arg Ser Leu Phe Phe Leu Trp Leu Val Met Gly Ile
65 70 75 80
Gly Phe Met Ala Ser Val Leu His Leu Gly Ser Pro Leu Arg Ala Phe
85 90 95
Asn Ser Leu Asn Arg Val Gly Ala Ser Ala Leu Ser Asn Glu Ile Ala
100 105 110
Ala Gly Ser Leu Phe Phe Ala Val Gly Gly Phe Trp Trp Leu Val Ser
115 120 125
Val Ile Gly Lys Met Pro Pro Ala Leu Gly Lys Ile Trp Leu Val Val
130 135 140
Ser Gln Leu Leu Gly Ile Val Phe Val Trp Ala Met Thr Arg Val Tyr
145 150 155 160
Gln Ile Glu Thr Val Pro Thr Trp Tyr Thr Gly Tyr Thr Thr Leu Ser
165 170 175
Phe Phe Leu Thr Met Val Leu Ala Gly Pro Leu Leu Ala Ala Leu Leu
180 185 190
Leu Arg Val Ala Asn Val Thr Phe Lys Gly Thr Leu Ala Ala Ser Val
195 200 205
Ser Val Leu Ala Ile Ile Val Cys Val Ala Val Val Val Leu Gln Ser
210 215 220
Asn Thr Leu Gly Thr Ile Gln Ser Ser Ile Gln Gln Ala Ser Ala Leu
225 230 235 240
Leu Pro Asp Tyr Gly Ser Leu Gln Val Trp Arg Ile Ala Leu Leu Ala
245 250 255
Ala Gly Leu Gly Cys Trp Ile Cys Pro Leu Ile Arg Arg Gln Glu Pro
260 265 270
Lys Thr Leu Gly Leu Phe Ala Gly Val Val Leu Val Ala Leu Gly Glu
275 280 285
Leu Ile Gly Arg Gly Leu Phe Tyr Gly Leu His Met Thr Ala Gly Leu
290 295 300
Ala Ile Ala Gly
305

<210> 10265

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 10265

Ser Arg Leu Ser Lys Lys Arg Cys Thr Asp Asn Ser Thr Trp Leu Val
1 5 10 15
His Pro Leu Cys Arg Pro Gly Ser His Ile Phe Ala Ala Thr Gln Arg
20 25 30
His Asn Cys Tyr Thr Val Tyr Asn Tyr Ser Ile Arg Gly Cys Thr Met
35 40 45
Ala Val Glu Thr Lys Phe Val Val Val Arg Lys Gly Glu Glu Lys Met
50 55 60
Thr Phe Ala Ser Lys Lys Glu Ala Asp Ala His Asp Lys Leu Leu Asp
65 70 75 80
Met Ala Glu Ala Phe Thr Asp Trp Leu Leu Gln Ser Gly Met Gln Met
85 90 95
Asp Glu Thr Gln Ala Glu Asn Leu Gly Leu Tyr Leu Ala Glu Gln Lys
100 105 110
Glu Ser Val Gln His Ile Leu Arg Thr Ser Lys Leu Pro Glu Arg Asn
115 120 125
Ala Ala Thr Asp Lys Thr Ala Ser Asp Ala Asp Ser Ser Lys Lys Ile
130 135 140
Arg Ala Val Lys Ala Ala
145 150

<210> 10266

<211> 419
 <212> PRT
 <213> Enterobacter cloacae

<400> 10266

Tyr Ser Tyr Val Asp Cys Gly Arg Ala Asp Asp Leu Ser Phe Ser Asp
 1 5 10 15
 Cys Ala Arg Leu Val Ala Ala Pro Phe Ala Gly Gly Thr Asp Ser Glu
 20 25 30
 Gly Asp Ser Ile Met Ile Lys Leu Glu Asn Leu Thr Lys Gln Phe Ser
 35 40 45
 Gln Lys His Gly Gln Thr Phe Lys Ala Val Asp Asn Val Asn Leu Asn
 50 55 60
 Val Pro Glu Gly Glu Met Cys Val Leu Leu Gly Pro Ser Gly Cys Gly
 65 70 75 80
 Lys Thr Thr Thr Leu Lys Met Ile Asn Arg Leu Ile Thr Pro Ser Ser
 85 90 95
 Gly Thr Ile Leu Ile Asn Gly Glu Asp Thr Ser Gly Met Asp Thr Val
 100 105 110
 Thr Leu Arg Arg Asn Ile Gly Tyr Val Ile Gln Gln Ile Gly Leu Phe
 115 120 125
 Pro Asn Met Thr Ile Glu Glu Asn Ile Thr Val Val Pro Arg Met Leu
 130 135 140
 Gly Trp Asp Lys Ala Arg Cys Lys Ser Arg Ala Glu Glu Leu Met Asp
 145 150 155 160
 Met Val Ala Met Asp Pro His Lys Phe Leu His Arg Tyr Pro Arg Glu
 165 170 175
 Met Ser Gly Gly Gln Gln Gln Arg Ile Gly Val Ile Arg Ala Leu Ala
 180 185 190
 Ala Asp Pro Pro Val Leu Leu Met Asp Glu Pro Phe Gly Ala Val Asp
 195 200 205
 Pro Ile Asn Arg Glu Val Ile Gln Asn Gln Phe Leu Glu Met Gln Arg
 210 215 220
 Lys Leu Lys Lys Thr Val Met Leu Val Ser His Asp Ile Asp Glu Ala
 225 230 235 240
 Leu Lys Leu Gly Asp Arg Ile Ala Val Phe Arg Gln Gly Arg Ile Val
 245 250 255
 Gln Cys Ala Ser Pro Asp Glu Leu Leu Ala Lys Pro Ala Asn Glu Phe
 260 265 270
 Val Gly Ser Phe Val Gly Gln Asp Arg Thr Leu Lys Arg Leu Leu Leu
 275 280 285
 Val Ser Ala Gly Asp Val Thr Asp Gln Gln Pro Thr Ile Thr Val Arg
 290 295 300
 Glu Ser Thr Pro Leu Pro Glu Ala Phe Ala Thr Met Asp Asp Asn Asp
 305 310 315 320
 Ile Arg Ala Ile Thr Val Val Asp Glu His Gly Lys Pro Leu Gly Phe
 325 330 335
 Val Lys Arg Arg Glu Ala Arg Asn Ala Ser Gly Ser Cys Gly Asp Ile
 340 345 350
 Leu His Pro Phe Arg Met Thr Gly Lys Ala Glu Asp Asn Leu Arg Val
 355 360 365
 Val Leu Ser Arg Leu Tyr Glu Ser Asn Thr Ser Trp Met Pro Ile Val
 370 375 380
 Asp Glu Asp Gly Arg Tyr Asn Gly Glu Ile Ser Gln Asp Tyr Ile Ala
 385 390 395 400
 Glu Tyr Leu Ser Ser Gly Arg Thr Arg Arg Ala Leu Asn Ile His Ser
 405 410 415
 Glu Ser

<210> 10267

<211> 472
 <212> PRT
 <213> Enterobacter cloacae

<400> 10267

Ala	Phe	Arg	Pro	Gly	Thr	Ala	Arg	Pro	Phe	Ser	Ala	Arg	Ile	Pro	Phe
1				5					10					15	
Ala	Asn	Leu	Pro	Ile	Ser	Arg	His	Asn	Ile	Val	Ser	Ser	Pro	Leu	Asn
		20						25					30		
His	Asp	Phe	Met	Gln	Arg	Leu	His	Ala	Tyr	Pro	Asp	Ile	Arg	Ala	Met
	35						40					45			
Phe	Arg	Arg	Leu	Leu	Ile	Ala	Thr	Val	Thr	Gly	Val	Leu	Ala	Ala	Leu
	50					55					60				
Ala	Val	Ala	Val	Phe	Arg	His	Ser	Met	Tyr	Leu	Leu	Glu	Trp	Leu	Phe
65					70					75					80
Leu	Ser	Asn	Glu	Ser	Gly	Ser	Leu	Val	Asn	Ala	Ala	Ala	Ala	Leu	Ser
			85						90					95	
Pro	Trp	Arg	Arg	Ala	Leu	Thr	Pro	Ala	Leu	Gly	Gly	Leu	Ala	Ala	Gly
			100					105					110		
Met	Leu	Leu	Trp	Gly	Trp	Gln	Arg	Met	Thr	Ala	Gln	Arg	Pro	His	Ala
	115						120					125			
Pro	Thr	Asp	Tyr	Met	Glu	Ala	Leu	Glu	Thr	Gly	Asp	Gly	Gln	Phe	Asp
	130					135					140				
Tyr	Gly	Ala	Ser	Leu	Val	Lys	Ser	Leu	Ala	Ser	Leu	Leu	Val	Val	Ala
145					150					155					160
Ser	Gly	Ser	Ala	Ile	Gly	Arg	Glu	Gly	Ala	Met	Ile	Leu	Leu	Ala	Ala
				165					170					175	
Leu	Ala	Ala	Ser	Phe	Phe	Ala	Gln	Arg	Cys	Thr	Pro	Lys	Ser	Glu	Trp
			180					185					190		
Lys	Leu	Trp	Ile	Ala	Cys	Gly	Ala	Ala	Ala	Gly	Met	Ala	Ser	Ala	Tyr
	195						200					205			
His	Ala	Pro	Leu	Ala	Gly	Ser	Leu	Phe	Ile	Ala	Glu	Ile	Leu	Phe	Gly
	210					215					220				
Thr	Leu	Met	Leu	Ala	Ser	Leu	Gly	Pro	Val	Val	Ile	Ala	Ala	Val	Val
225					230					235					240
Ala	Leu	Leu	Thr	Thr	Arg	Leu	Leu	Ser	Pro	Gly	Ala	Asn	Thr	Leu	Tyr
				245					250					255	
Asp	Val	His	Leu	Ser	Glu	Met	Leu	Thr	Ala	Val	Asp	Tyr	Phe	Leu	Ile
		260						265					270		
Val	Gly	Val	Gly	Leu	Leu	Ala	Gly	Val	Cys	Gly	Pro	Leu	Leu	Met	Trp
		275					280					285			
Leu	Met	Ala	Ala	Ser	His	Arg	Leu	Phe	Leu	Arg	Leu	Lys	Leu	Ser	Pro
	290					295					300				
Pro	Trp	Gln	Leu	Ala	Leu	Gly	Gly	Leu	Ile	Val	Gly	Leu	Leu	Ser	Leu
305					310					315					320
Leu	Thr	Pro	Lys	Val	Trp	Gly	Asn	Gly	Tyr	Ser	Val	Val	Gln	Ala	Phe
			325						330					335	
Leu	Gln	Ser	Pro	Pro	Leu	Leu	Ser	Val	Ile	Ala	Gly	Val	Phe	Ile	Cys
			340					345					350		
Lys	Leu	Leu	Ala	Val	Leu	Ala	Ser	Ser	Gly	Ser	Gly	Ala	Pro	Gly	Gly
	355						360					365			
Val	Phe	Thr	Pro	Thr	Leu	Phe	Val	Gly	Met	Ala	Thr	Gly	Met	Leu	Phe
	370					375					380				
Ala	Gln	Ile	Phe	Ala	Leu	Trp	Phe	Pro	Gly	Ser	Glu	Thr	Ala	Ile	Leu
385					390					395					400
Leu	Gly	Leu	Ala	Gly	Met	Ala	Thr	Leu	Leu	Ala	Ala	Thr	Thr	His	Ala
				405					410					415	
Pro	Ile	Met	Ser	Ala	Leu	Met	Val	Cys	Glu	Met	Thr	Gly	Gln	Tyr	Phe
			420					425					430		
Leu	Leu	Pro	Gly	Leu	Leu	Val	Ala	Cys	Val	Val	Ala	Ser	Val	Leu	Ser
			435				440					445			

Arg Thr Leu Arg His Asp Ser Thr Tyr Gly Gln His Thr Ala Glu Ser
 450 455 460
 Arg Glu Ile Asp Val Val Arg
 465 470

<210> 10268

<211> 355

<212> PRT

<213> Enterobacter cloacae

<400> 10268

Ile Lys Asn Cys Ser Gly Thr Ser Met Ala Lys Pro Ile Ile Thr Leu
 1 5 10 15
 Asn Gly Leu Lys Ile Val Ile Met Leu Gly Met Leu Val Ile Ile Leu
 20 25 30
 Thr Gly Val Arg Phe Ala Ala Asp Ile Ile Val Pro Phe Ile Leu Ala
 35 40 45
 Leu Phe Ile Ala Val Ile Leu Asn Pro Leu Val Gln Arg Met Val Arg
 50 55 60
 Leu Arg Ile Pro Arg Val Leu Ala Ile Ser Leu Ile Ser Ile Ile
 65 70 75 80
 Ile Val Ala Met Val Leu Leu Val Ala Tyr Leu Gly Thr Ser Leu Asn
 85 90 95
 Glu Leu Ala Arg Thr Leu Pro Thr Tyr Arg Ser Ser Leu Ala Thr Pro
 100 105 110
 Leu Leu Gln Ile Glu Pro Trp Leu Gln Arg Ala Gly Ile Glu Val Ser
 115 120 125
 Val Glu Glu Met Leu Lys Tyr Ile Asp Pro Asn Ala Met Thr Ile
 130 135 140
 Val Thr Ser Leu Leu Ala Gln Leu Ser Asn Ala Met Thr Ser Ile Phe
 145 150 155 160
 Leu Leu Phe Leu Thr Val Val Phe Met Leu Leu Glu Val Pro Gln Leu
 165 170 175
 Pro Ala Lys Leu Gln His Ile Met Val Arg Pro Val Glu Gly Met Gly
 180 185 190
 Ala Ile Gln Arg Ala Leu Asp Ser Val Ser Arg Tyr Leu Val Leu Lys
 195 200 205
 Thr Ala Ile Ser Leu Val Thr Gly Leu Val Val Trp Gly Met Leu Ala
 210 215 220
 Ala Leu Asp Val Arg Phe Ala Phe Val Trp Gly Leu Leu Ala Phe Ala
 225 230 235 240
 Leu Asn Tyr Ile Pro Asn Ile Gly Ser Val Leu Ala Ala Ile Pro Pro
 245 250 255
 Ile Leu Gln Val Leu Val Phe Ser Gly Leu Tyr Asp Ala Leu Ile Leu
 260 265 270
 Leu Ala Gly Tyr Leu Val Ile Asn Leu Val Phe Gly Asn Ile Leu Glu
 275 280 285
 Pro Arg Ile Met Gly Arg Gly Leu Gly Leu Ser Thr Leu Val Val Phe
 290 295 300
 Leu Ser Leu Ile Phe Trp Gly Trp Leu Leu Gly Pro Val Gly Met Leu
 305 310 315 320
 Leu Ser Val Pro Leu Thr Ile Ile Val Lys Ile Gly Leu Glu Gln Thr
 325 330 335
 Ala Gly Gly Gln Ser Ile Ala Val Leu Leu Ser Asp Met Ser His Lys
 340 345 350
 Ala Asp
 355

<210> 10269

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 10269

Gln Val Thr Ser Ala Met Ala Leu Ile Pro Lys Asn Tyr Ala Arg Leu
 1 5 10 15
 Glu Ser Gly Tyr Arg Glu Lys Ala Leu Lys Ile Tyr Pro Trp Val Cys
 20 25 30
 Gly Arg Cys Ser Arg Glu Phe Val Tyr Ser Asn Leu Arg Glu Leu Thr
 35 40 45
 Val His His Ile Asp His Asp His Thr Asn Asn Pro Glu Asp Gly Ser
 50 55 60
 Asn Trp Glu Leu Leu Cys Leu Phe Cys His Asp His Glu His Ser Lys
 65 70 75 80
 Tyr Thr Glu Ala Asp Gln Tyr Gly Thr Thr Val Val Ala Gly Glu Asp
 85 90 95
 Ala Gln Lys Asp Val Gly Val Ala Thr Phe Asn Pro Phe Ala Asp Leu
 100 105 110
 Lys Ala Met Met Asp Lys Lys Lys
 115 120

<210> 10270

<211> 346

<212> PRT

<213> Enterobacter cloacae

<400> 10270

Lys Thr Val Gly Cys Ala Met Ala Ile Phe Asp Gly His Asn Asp Leu
 1 5 10 15
 Leu Leu Asn Leu Trp Leu His His Arg Gln Asp Pro Val Thr Ala Leu
 20 25 30
 Phe Ser Gly Ile Glu Asn Gly His Leu Asp Tyr Pro Arg Met Gln Gln
 35 40 45
 Gly Gly Phe Ser Gly Gly Leu Phe Ala Leu Phe Val Pro Pro Gln Glu
 50 55 60
 Tyr Ile Ala Arg Met Ala Pro Gln Tyr Ala Cys Glu Pro Trp Gln Pro
 65 70 75 80
 Val Asp Ile Leu Trp Gln Gln Leu Thr Leu Lys Gln Leu Val Ala
 85 90 95
 His Ser Asp Gly Arg Ala Arg Leu Cys Leu Ser Ala Ala Asp Ile Glu
 100 105 110
 Arg Cys Arg Gln Asp Lys Val Leu Ala Met Val Ala His Ile Glu Gly
 115 120 125
 Ala Gly Gly Phe Asp Gly Glu Gly Gly Asp Leu Gln Ala Leu Tyr Ala
 130 135 140
 Ala Gly Val Arg Ser Ile Gly Pro Phe Trp Asn Ile Ala Asn Arg Phe
 145 150 155 160
 Gly Thr Gly Val Asn Gly Ala Phe Pro Gly Ser Pro Asp Ser Gly Pro
 165 170 175
 Gly Leu Thr Ala Glu Gly Ile Ala Leu Ile Lys His Ala Asn Ala Leu
 180 185 190
 Asn Met Leu Ile Asp Val Ser His Met Asn Glu Lys Ala Phe Trp Asp
 195 200 205
 Thr Ala Arg His Ser Ser Ser Pro Leu Val Ala Thr His Ser Asn Ala
 210 215 220
 His Thr Leu Cys Pro Gln Pro Arg Asn Leu Thr Asp Arg Gln Leu Leu
 225 230 235 240
 Ala Ile Arg Asp Ser Gly Gly Val Ala Gly Val Asn Phe Gly Asn Ala
 245 250 255
 Phe Leu Arg Ala Asp Gly Lys Arg Asp Ser Asp Thr Pro Leu Ser Thr
 260 265 270
 Ile Val Arg His Ile Asp Tyr Leu Ile Asn Ile Met Gly Asp Asp His

275 280 285
 Val Ala Leu Gly Ser Asp Phe Asp Gly Ile Thr Leu Pro Asp Asp Leu
 290 295 300
 His Asp Val Ser Gly Leu Pro Arg Leu Ile Ser Ala Leu Arg Asp Ser
 305 310 315 320
 Gly Tyr Asp Gln Phe Val Leu Asn Lys Leu Leu Trp Gly Asn Trp Gln
 325 330 335
 Lys Val Leu Gln Asn Val Trp Gln Gln
 340 345

<210> 10271

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 10271

Arg Ala Val Ala Ala Ser Arg Pro Cys Ala Ala Gly Asn Arg Ser
 1 5 10 15
 Glu Leu Gly Arg Asp Glu His His Ala Ser Gly Leu Thr Met His Ile
 20 25 30
 Arg Glu Thr Leu Ser Pro Gln Glu Phe Glu His Ala Leu Arg Ala Lys
 35 40 45
 Gly Ala Tyr Tyr His Ile His His Pro Tyr His Ile Ala Met His Asn
 50 55 60
 Gly Glu Ala Ser Arg Glu Gln Ile Gln Gly Trp Val Ala Asn Arg Phe
 65 70 75 80
 Tyr Tyr Gln Thr Thr Ile Pro Leu Lys Asp Ala Ala Ile Met Ala Asn
 85 90 95
 Cys Pro Asp Pro His Thr Arg Arg Lys Trp Val Gln Arg Ile Leu Asp
 100 105 110
 His Asp Gly Ser Asn Gly His Asp Gly Gly Ile Glu Ala Trp Leu Gln
 115 120 125
 Leu Gly Glu Ala Val Gly Leu Ser Arg Glu Asp Leu Ile Ser Glu Arg
 130 135 140
 His Val Leu Pro Gly Val Arg Phe Ala Val Asp Ala Tyr Val Asn Phe
 145 150 155 160
 Ala Arg Arg Ala Asn Trp Gln Glu Ala Ala Cys Ser Ser Leu Thr Glu
 165 170 175
 Leu Phe Ala Pro Gln Ile His Gln Ser Arg Leu Asp Ser Trp Pro Gln
 180 185 190
 His Tyr Pro Trp Ile Lys Glu Glu Gly Tyr Phe Tyr Phe Arg Ser Arg
 195 200 205
 Leu Ser Gln Ala Ser Arg Asp Val Glu His Gly Leu Glu Leu Ala Lys
 210 215 220
 Arg Tyr Cys Asp Ser Ala Glu Lys Gln Asn Arg Met Leu Glu Ile Leu
 225 230 235 240
 Gln Phe Lys Leu Asp Ile Leu Trp Ser Met Leu Asp Ala Met Thr Met
 245 250 255
 Ala Tyr Ala Leu Gln Arg Pro Pro Tyr His Thr Val Thr Asp Lys Ala
 260 265 270
 Ala Trp His Thr Thr Arg Leu Val
 275 280

<210> 10272

<211> 395

<212> PRT

<213> Enterobacter cloacae

<400> 10272

Asn Ser Cys Lys Ser Leu Ile Asn Arg Ser Gly Leu Phe Ser Val Ser
 1 5 10 15

Gln Asn Lys Pro Ala Val Asn Pro Pro Leu Trp Leu Leu Ala Glu Leu
 20 25 30
 Thr Tyr Arg Cys Pro Leu Gln Cys Pro Tyr Cys Ser Asn Pro Leu Asp
 35 40 45
 Phe Ala Arg Gln Asp Gln Glu Leu Thr Thr Glu Gln Trp Ile Glu Val
 50 55 60
 Phe Arg Gln Ala Arg Ala Met Gly Ser Val Gln Ile Gly Phe Ser Gly
 65 70 75 80
 Gly Glu Pro Leu Thr Arg Lys Asp Leu Pro Glu Leu Ile Arg Ala Ala
 85 90 95
 Arg Asp Leu Gly Phe Tyr Thr Asn Leu Ile Thr Ser Gly Ile Gly Leu
 100 105 110
 Thr Glu Ser Lys Leu Asp Ala Phe Ser Glu Ala Gly Leu Asp His Ile
 115 120 125
 Gln Ile Ser Phe Gln Ala Ser Asp Glu Glu Leu Asn Ala Ala Leu Thr
 130 135 140
 Gly Asn Lys Lys Ala Phe Gln Gln Lys Leu Ala Met Ala Lys Ala Val
 145 150 155 160
 Lys Ala Arg Asp Tyr Pro Met Val Leu Asn Phe Val Leu His Arg His
 165 170 175
 Asn Ile Asp Gln Ile Asp Lys Ile Ile Glu Leu Cys Ile Glu Leu Asp
 180 185 190
 Ala Asp Asp Val Glu Leu Ala Thr Cys Gln Phe Tyr Gly Trp Ala Phe
 195 200 205
 Leu Asn Arg Gln Gly Leu Leu Pro Thr Arg Glu Gln Ile Ala Arg Ala
 210 215 220
 Glu Arg Val Val Ala Glu Tyr Arg Gln Lys Met Ala Ala Ser Gly Asn
 225 230 235 240
 Leu Thr Asn Leu Leu Phe Val Thr Pro Asp Tyr Tyr Glu Glu Arg Pro
 245 250 255
 Lys Gly Cys Met Gly Gly Trp Gly Ser Ile Phe Leu Ser Val Thr Pro
 260 265 270
 Glu Gly Thr Ala Leu Pro Cys His Ser Ala Arg Gln Leu Pro Val Asp
 275 280 285
 Phe Pro Ser Val Leu Glu Gln Ser Leu Glu Ser Ile Trp Tyr Asp Ser
 290 295 300
 Phe Gly Phe Asn Arg Tyr Arg Gly Phe Asp Trp Met Pro Glu Pro Cys
 305 310 315 320
 Arg Ser Cys Asp Glu Lys Glu Lys Asp Phe Gly Gly Cys Arg Cys Gln
 325 330 335
 Ala Phe Met Leu Thr Gly Asn Ala Asp Asn Ala Asp Pro Val Cys Ser
 340 345 350
 Lys Ser Pro His His His Lys Ile Leu Glu Ala Arg Arg Glu Ala Ala
 355 360 365
 Cys Ser Asp Met Lys Ile Gly Gln Leu Gln Phe Arg Asn Arg Thr Arg
 370 375 380
 Ser Gln Leu Ile Tyr Lys Thr Arg Glu Leu
 385 390 395

<210> 10273

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 10273

Gln Gln Asp Arg Phe Arg Met Thr Asp Asn Asn Thr Ala Leu Lys Lys
 1 5 10 15
 Ala Gly Leu Lys Val Thr Leu Pro Arg Leu Lys Ile Leu Glu Val Leu
 20 25 30
 Gln Gly Pro Asp Asn His His Val Ser Ala Glu Asp Leu Tyr Lys Arg
 35 40 45

Leu Ile Asp Met Gly Glu Glu Ile Gly Leu Ala Thr Val Tyr Arg Val
 50 55 60
 Leu Asn Gln Phe Asp Asp Ala Gly Ile Val Thr Arg His Asn Phe Glu
 65 70 75 80
 Gly Gly Lys Ser Val Phe Glu Leu Thr Gln Gln His His His Asp His
 85 90 95
 Leu Ile Cys Leu Asp Cys Gly Lys Val Ile Glu Phe Ser Asp Asp Ser
 100 105 110
 Ile Glu Ser Arg Gln Arg Glu Ile Ala Ala Arg His Gly Ile Arg Leu
 115 120 125
 Thr Asn His Ser Leu Tyr Leu Tyr Gly His Cys Ala Glu Gly Asp Cys
 130 135 140
 Arg Glu Asn Glu His Ala His Asp Ala Lys
 145 150 155

<210> 10274

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 10274

Arg Arg Arg Ile Ala Pro Val Leu Lys Leu Arg Lys Asn Pro Pro Glu
 1 5 10 15
 Lys Ile Glu Ala Phe Lys Ser Val Leu Asn Val Leu Lys Lys Glu Lys
 20 25 30
 Ala His Glu Gln Phe Ala Thr Gln Glu Asn Val Arg Val Met Asp Tyr
 35 40 45
 Gln Ala Cys Ile Gln Ala Arg Lys Thr Gly Asn Asp Gln Glu Val Ala
 50 55 60
 Lys Arg Cys Asp Lys Ile Trp Asn Glu Ile Arg Asn Asn Asn Lys
 65 70 75 80

<210> 10275

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 10275

Lys Ile Asp Ser Met Tyr Asn Leu Arg Met Tyr Ser Arg Ile Gly Arg
 1 5 10 15
 Arg Asn Pro Leu Tyr Ser Thr Ala Ile Gly Lys Val Leu Leu Ala Trp
 20 25 30
 Arg Asp Arg Glu Glu Val Lys Gln Ile Leu Asp Gly Val Glu Tyr Lys
 35 40 45
 Arg Ser Thr Asp Arg Thr Ile Thr Ser Thr Asp Glu Leu Leu Ser Val
 50 55 60
 Leu Asp Asn Val Arg Glu Gln Gly Tyr Gly Glu Asp Asn Glu Glu Gln
 65 70 75 80
 Glu Glu Gly Leu Arg Cys Ile Gly Val Pro Val Phe Asp Arg Phe Gly
 85 90 95
 Val Val Ile Ala Gly Leu Ser Ile Ser Phe Pro Thr Leu Arg Phe Ser
 100 105 110
 Glu Glu Arg Leu His Glu Tyr Val Ala Ile Leu His Thr Ala Ala Arg
 115 120 125
 Lys Ile Ser Glu Gln Met Gly Tyr Asn Asp Tyr Pro Phe
 130 135 140

<210> 10276

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 10276

Thr Met Ala Thr Phe His Ile Ser Phe Lys Lys Leu Arg Arg Ser Glu
 1 5 10 15
 Gly Lys Ser Ser Val Tyr Leu Ser Ala Tyr Gln Asn Arg Glu Lys Thr
 20 25 30
 Lys Asp Asn Arg Thr Gly Ala Thr Trp Asp Tyr Ser Lys Lys Glu Gly
 35 40 45
 Phe Phe Gly Ser Ala Ile Leu Ser Pro Ala Gly Thr Pro Ala Glu Leu
 50 55 60
 Val Lys Asp Ser Gly Thr Leu Trp Asn Ala Val Glu Ala Gly Glu Lys
 65 70 75 80
 Arg Lys Asp Ala Glu Leu Cys Arg Tyr Leu Asp Ile Ala Ile Pro Lys
 85 90 95
 Glu Leu Asp Asp Gly Gln Lys Lys Gln Ile Val Leu Asp Tyr Cys Gln
 100 105 110
 Glu Asn Phe Val Asp Tyr Ala
 115

<210> 10277

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 10277

Met Arg Tyr Ile His Met Ser Glu Tyr Ile Lys Val Phe Leu Ala Leu
 1 5 10 15
 Cys Ser Phe Val Phe Thr Gly Thr Leu Ala His Ala Ala Ser Ser Gly
 20 25 30
 Thr Ile Thr Phe Thr Gly Ser Val Asn Ser Glu Thr Cys Ala Ala Val
 35 40 45
 Val Asn Asn Gly Asn Ala Asp Ala Thr Val Thr Leu Pro Ala Val Pro
 50 55 60
 Thr Ser Ala Leu Ser Ala Ala Gly Ala Thr Ala Gly Ala Thr Thr Phe
 65 70 75 80
 Thr Ile Asn Leu Thr Gly Cys Glu Phe Tyr Pro Ser Gly Ala Lys Val
 85 90 95
 Gln Arg Tyr Phe Gln
 100

<210> 10278

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 10278

Ile Met Leu Ser Ala Ala Arg Gly Glu Asp Gln Met Asn Ile Pro Tyr
 1 5 10 15
 Arg Phe Ala Asp Asn Gly Gly Ala Leu Glu Val Pro Ala Asp Lys Val
 20 25 30
 His Glu Leu Arg Leu Arg Leu Ala Gln Gln Gly Leu Pro Lys Gly Gly
 35 40 45
 Ala Val Gly Phe Glu Leu Leu Asp Gln Glu Lys Phe Gly Ile Ser Gln
 50 55 60
 Phe Ser Glu Gln Val Asn Tyr Gln Arg Ala Leu Glu Gly Glu Leu Ala
 65 70 75 80
 Arg Thr Ile Glu Thr Leu Gly Pro Val Lys Ser Ala Arg Val His Leu
 85 90 95
 Ala Met Pro Lys Pro Ser Leu Phe Val Arg Glu Gln Lys Ser Pro Ser
 100 105 110
 Ala Ser Val Thr Val Asn Leu Glu Pro Gly Arg Ala Leu Val Ser Gly

115 120 125
 Gly Val Met Arg Leu His Glu Ser Pro Ile Ile Cys Ser Thr Ser Ala
 130 135 140
 Ala Thr Ser Cys Pro Ala Arg Arg
 145 150

<210> 10279

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 10279

Pro Ser Asp Asn Ser Ala Met Leu Glu Lys Ala Ile Ala Ala Val Ala
 1 5 10 15
 Ala Ala Met Thr Asp Pro Ser Arg Val Lys Met Leu Cys Ala Leu Met
 20 25 30
 Asp Gly Arg Ala Trp Thr Ala Thr Glu Leu Ser Ala Ala Ala Asp Val
 35 40 45
 Ala Pro Ser Thr Ala Ser Gly His Leu Ala Arg Leu Val Glu Gly Gln
 50 55 60
 Leu Ile Thr Cys Leu Ser Gln Gly Arg His Arg Tyr Tyr Arg Leu Ala
 65 70 75 80
 Gly His Asp Val Ala Ala Leu Val Glu Gln Met Met Gly Leu Ser Trp
 85 90 95
 Ser Arg Ile Thr Pro Pro Glu Thr Ser Ala Arg Pro Gly Ser Arg Leu
 100 105 110
 Thr Val Thr Glu Ala Glu Gly Asp Phe Cys Ser Arg Thr Asn Arg Asp
 115 120 125
 Gly Leu Gly Ile Ala Arg Cys Thr Arg Ala Leu Phe Thr Gly Pro Lys
 130 135 140
 Val Ser Ile Val Arg Ala Ser Ser Pro Ser Ser Ala Arg Trp
 145 150 155

<210> 10280

<211> 248

<212> PRT

<213> Enterobacter cloacae

<400> 10280

Arg Leu Leu Gly Lys Lys Glu Pro Thr Val Asn Ala Pro Val Arg Gly
 1 5 10 15
 Leu Tyr Met Trp Gly Gly Val Gly Arg Gly Lys Thr Trp Leu Met Asp
 20 25 30
 Met Phe Tyr Gln Ser Leu Pro Gly Thr Arg Lys Gln Arg Leu His Phe
 35 40 45
 His Arg Phe Met Leu Arg Val His Glu Glu Leu Thr Ala Leu Gln Gly
 50 55 60
 Glu Thr Asp Pro Leu Glu Ile Val Ala Asp Arg Phe Lys Ala Glu Thr
 65 70 75 80
 Asp Val Leu Cys Phe Asp Glu Phe Phe Val Ser Asp Ile Thr Asp Ala
 85 90 95
 Met Leu Leu Gly Gly Leu Met Lys Ala Leu Phe Ala Arg Gly Ile Thr
 100 105 110
 Leu Val Ala Thr Ser Asn Ile Pro Pro Asp Glu Leu Tyr Arg Asn Gly
 115 120 125
 Leu Gln Arg Ala Arg Phe Leu Pro Ala Ile Asp Ala Ile Lys Gln His
 130 135 140
 Cys Asp Ile Met Asn Val Asp Ala Gly Val Asp Tyr Arg Leu Arg Thr
 145 150 155 160
 Leu Thr Gln Ala His Leu Trp Leu Ser Pro Leu Asn Ala Asp Thr Ala
 165 170 175

Ser Glu Met Asp Lys Leu Trp Leu Ala Leu Ala Gly Ala Pro Arg Asp
 180 185 190
 Lys Ala Pro Ala Leu Glu Ile Asn His Arg Pro Leu Ser Thr Leu Gly
 195 200 205
 Val Glu Asn Gln Thr Leu Ala Val Ser Phe Ala Thr Leu Cys Val Asp
 210 215 220
 Ala Arg Ser Gln His Asp Tyr Gly Pro Leu Ser His Leu Gly Leu Asn
 225 230 235 240
 Gln Pro Asp Arg Met Ile Tyr Gly
 245

<210> 10281

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 10281

Trp Arg Asn Cys Val Arg Ile Glu Thr Ser Leu Phe Thr Thr Pro Glu
 1 5 10 15
 Cys Met Lys Ala Ile Thr Leu Tyr Asp Val Ala Arg Val Ala Gly Val
 20 25 30
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 35 40 45
 Lys Lys Lys Lys Lys Lys Val Arg Gln Ala Met Ala Ala Leu His Tyr
 50 55 60
 Val Pro Asn Arg Gly Ala Gln Gln Leu Ala Gly Lys Arg Thr Arg Thr
 65 70 75 80
 Leu Gly Leu Met Thr Ser Asp Leu Ala Leu His Ala Pro Ser Gln Met
 85 90 95
 Ala Ser Gly Leu His Leu Glu Gly Ser Arg Asn Arg Glu Ser Thr Ile
 100 105 110

<210> 10282

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 10282

Ile Pro Met Arg His Phe Pro Gly Leu Gly Ile Ile Ser Lys Leu Ile
 1 5 10 15
 Val Leu Phe Met Pro Ala Asp Ala Ser Met Ala Val Ile Pro Glu Leu
 20 25 30
 Thr Ser Val Pro Val Arg Ile Thr Leu Leu Val Ser Gly Ile Val Val
 35 40 45
 Asn Ala Leu Ala Thr Gly Met Tyr Ile Gly Ala Gly Phe Gly Ala Gly
 50 55 60
 Pro Arg Asp Gly Leu Met Thr Gly Ile His Ala Arg Leu Gly Trp Ser
 65 70 75 80
 Ile Arg Ser Val Arg Thr Ala Ile Glu Val Thr Val Leu Ile Val Gly
 85 90 95
 Tyr Leu Leu Gly Gly Ala Phe Gly Val Gly Thr Val Leu Tyr Ala Leu
 100 105 110
 Thr Ile Gly Pro Leu Ile Gln Leu Cys Leu Pro Trp Phe Arg Gln Arg
 115 120 125
 Pro Arg Ile Gln Lys Ala Ala Gln Pro Glu Arg Ile Val
 130 135 140

<210> 10283

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 10283

```

Asn Ser Leu Cys Gly Asp Trp Gln Arg Ser Leu Met Met Ile Thr Met
1      5      10      15
Ala Lys Asn Leu Gly Phe Ser Lys Ala Thr Leu Arg Lys Val Gly Ala
20      25      30
Asn Ser Asp Gly Asp Gly Phe Leu Cys Phe Ala Ala His Gly Asn Ser
35      40      45
Met Glu Pro Val Ile Ala Asp Gly Ser Thr Val Ala Ile Asn Cys His
50      55      60
Asp Lys Arg Ile Val Asp Gly Lys Ile Tyr Gly Ile Asn Gln Gly Gly
65      70      75      80
Trp Lys Arg Leu Lys Ile Leu Tyr Arg Ser Gly Pro Asp Lys Val Thr
85      90      95
Ile Arg Ser Tyr Asn Ser Asp Glu Tyr Pro Asp Glu Glu Val Asp Met
100     105     110
Asp Ser Leu Glu Val Leu Gly Arg Leu Phe Trp Val Ser Thr Ile Phe
115     120     125

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<210> 10284

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 10284

```

Arg Phe Phe Gly Asp Ala Met Arg Gln Leu Gln Pro Lys Thr Asn Ala
1      5      10      15
Val Phe Gly Gly Gln Tyr His Ile Ala Gly Arg Asp Val Thr Tyr Glu
20      25      30
Pro Ala Thr Gln Ala Asp Gly Gln Phe Ala Ala Lys Gly Glu Val Ile
35      40      45
Thr Ala Lys Trp Val Glu Ala Glu Gln Leu Phe Gly Cys Leu Arg Gln
50      55      60
Phe Asn Gly Asp Val Ser Leu Gln Pro Gly Leu Val His Arg Ala Asn
65      70      75      80
Gly Gly Leu Leu Leu Ile Ser Leu Arg Thr Leu Leu Ala Gln Pro Leu
85      90      95
Leu Trp Met Arg Leu Lys Thr Val Val Thr Gln Gln Arg Phe Asp Trp
100     105     110
Val Gly Tyr Asp Asp Ser Arg Pro Leu Pro Val Ser Ile Pro Ser Met
115     120     125
Pro Leu Ser Met Thr Val Val Leu Thr Gly Asp Arg Glu Ser Leu Ala
130     135     140
Asp Leu Gln Glu Met Glu Pro Glu Leu Ala Glu Gln Ala Val Tyr Ser
145     150     155     160
Glu Phe Glu Asp Asn Ile Gln Ile Ala Asp Ala Asp Asp Met Ala Gln
165     170     175
Trp Cys Gln Trp Val Met Ala Val Ala Glu Arg Phe Ala Leu Pro Ser
180     185     190
Pro Ala Glu Asp Ala Trp Pro Gly Leu Ile Arg Glu Ala Val Arg Tyr
195     200     205
Thr Gly Asp Gln Glu Thr Leu Pro Leu Cys Pro Leu Trp Ile Gly Lys
210     215     220
Gln Leu Arg Glu Val Gly Val Ile Ser Gly Asn Gly Pro Phe Thr Gly
225     230     235     240
Glu Gln Leu Ser Gln Met Leu Ala Gln Arg Glu Trp Arg Glu Gly Tyr
245     250     255
Leu Ala Asp Arg Met Gln Asp Glu Ile Leu Leu Glu Gln Ile Leu Val
260     265     270

```

Glu Thr Glu Gly Glu Arg Ile Gly Gln Ile Asn Ala Leu Ser Val Ile
 275 280 285
 Glu Phe Pro Gly His Pro Arg Ala Phe Gly Glu Pro Ser Arg Ile Ser
 290 295 300
 Cys Val Val His Ile Gly Asp Gly Glu Phe Thr Asp Ile Glu Arg Lys
 305 310 315 320
 Ala Glu Leu Gly Gly Asn Ile His Ala Lys Gly Met Met Ile Met Gln
 325 330 335
 Ala Phe Leu Met Ser Glu Leu Gln Leu Glu Gln Gln Ile Pro Phe Ser
 340 345 350
 Ala Ser Leu Thr Phe Glu Gln Ser Tyr Ser Glu Val Asp Gly Asp Ser
 355 360 365
 Ala Ser Met Ala Glu Leu Cys Ala Val Ile Ser Ala Leu Ala Asp Val
 370 375 380
 Pro Ile Asn Gln Asn Ile Ala Ile Thr Gly Ser Val Asp Gln Phe Gly
 385 390 395 400
 Arg Ala Gln Pro Val Gly Gly Leu Asn Glu Lys Ile Glu Gly Ser Ser
 405 410 415
 Gln Ser Ala Ser Ser Pro Thr Gly Ala Gly Arg Ser Cys Ala
 420 425 430

<210> 10285

<211> 343

<212> PRT

<213> Enterobacter cloacae

<400> 10285

Arg Arg Val Ser Pro Leu Cys Arg Leu Ser Asn Phe Ser Leu Gly Gln
 1 5 10 15
 Arg Thr Leu Leu Lys Phe Cys Pro Val Cys Ala Arg Glu Asp Thr Phe
 20 25 30
 His Tyr Gly Val Thr Tyr Trp His Leu Ala His Gln Leu His Gly Val
 35 40 45
 Thr Thr Cys His Arg His Pro Val Ala Leu Glu Ser Ile His Val Pro
 50 55 60
 Ser Ser Pro His Ile Arg Ile Gly Leu Met Pro Pro Val Ser Tyr Thr
 65 70 75 80
 Glu Gln Leu Ser Asn Glu Ile Asp Phe Asp Phe Ala Lys Phe Cys Tyr
 85 90 95
 Glu Ser Leu Asn Ile Ile Arg Arg Lys Asp Ile Thr His Pro Asn Tyr
 100 105 110
 Met Asp Val Leu Lys Lys Leu Asn Leu Leu Ser Leu Asp Gly Asn Leu
 115 120 125
 Lys Lys Asn Val Phe Tyr Ala His Val Tyr Ala Lys Cys Gln Leu Phe
 130 135 140
 Gly Glu Gly Ser Ser Gly Leu Ile Pro Thr Ser Leu Thr Asp Tyr His
 145 150 155 160
 Tyr Trp Glu Pro Ile Leu Lys Asp Lys Cys Cys Gln His Pro Thr Lys
 165 170 175
 His Leu Leu Leu Cys Tyr Cys Leu Leu Asn Thr Cys Trp Pro Thr Tyr
 180 185 190
 Ala Gly Ser Arg Thr Asn Lys Lys Lys Glu Ile Phe Lys Ser His Lys
 195 200 205
 Lys Tyr Ser Phe His Ile Val Glu Asn Asn Thr Ser Val Ser Asn Leu
 210 215 220
 Gly Lys Glu Phe Ser Arg Ser Arg Cys Tyr Ile Lys Thr Leu Ile Tyr
 225 230 235 240
 Lys Lys Tyr Leu Arg Ala Phe Lys Arg Asn Thr Lys Ile Asn Ile Phe
 245 250 255
 Thr Glu Leu Leu Ile Lys Ser Met Ala Val Arg Gly Phe Ser Leu Ala
 260 265 270

Ser Ile Ala Glu Lys Asn Ser Leu Ser Glu Gly Ala Val Ser Ser Val
 275 280 285
 Ile Ser Ser Cys Tyr Gly Leu Cys Ser Trp Arg Lys Lys Cys Lys Lys
 290 295 300
 Asp Ser Leu Arg Arg Arg His Lys Gln Lys Ile Leu Arg Phe Ile His
 305 310 315 320
 Asn Gln Ser Val Ser Ile Thr Arg Lys Leu Val Asn Leu His Asp Gly
 325 330 335
 Ala Glu Arg Lys Arg Ala Thr
 340

<210> 10286

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 10286

Thr Leu Gln Pro Val Lys Met Ser Glu Lys Arg Ala Gln Ser Val
 1 5 10 15
 Val Asp Tyr Leu Val Ser Lys Gly Ile Pro Ala Asn Lys Ile Ser Pro
 20 25 30
 Arg Gly Met Gly Glu Ser Asn Pro Val Thr Gly Ser Thr Cys Asp Asn
 35 40 45
 Val Lys Pro Arg Ala Ala Leu Ile Asp Cys Leu Ala Pro Asp Arg Arg
 50 55 60
 Val Glu Ile Glu Val Lys Gly Ile Lys Asp Val Val Thr Gln Pro Ala
 65 70 75 80
 Ala

<210> 10287

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 10287

Thr Glu Leu His Gly Asn Thr Glu Ile Ala Met Lys Tyr Gln Gln Leu
 1 5 10 15
 Glu Asn Leu Glu Ser Gly Trp Lys Trp Lys Tyr Leu Val Lys Lys His
 20 25 30
 Arg Glu Gly Glu Leu Ile Thr Cys Tyr Ile Glu Ala Ser Ala Ala Gln
 35 40 45
 Glu Ala Val Asp Met Leu Leu Thr Leu Glu Asn Glu Pro Val Leu Val
 50 55 60
 Asn Gly Trp Ile Glu Lys His Ile Asn Pro Ala Leu Leu Asn Arg Met
 65 70 75 80
 Lys Gln Thr Ile Arg Ala Arg Arg Lys Arg His Phe Asn Ala Glu His
 85 90 95
 Gln His Thr Arg Lys Lys Ser Ile Asp Leu Glu Phe Met Val Trp Gln
 100 105 110
 Arg Leu Ala Gly Leu Ala Gln Arg Arg Gly Lys Thr Leu Ser Glu Thr
 115 120 125
 Val Val Gln Leu Ile Glu Asp Ala Glu His Lys Glu Lys Tyr Ala Ser
 130 135 140
 Gln Met Ser Thr Leu Lys Asn Asp Leu Gln Ala Leu Leu Gly Lys Lys
 145 150 155 160

<210> 10288

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10288

Ile Ser Lys Gln Ile Lys Ile Ile Gly Glu Ala Ala Arg Arg Asp Tyr
 1 5 10 15
 Asn Val Thr Glu Val Ala Asn Met Leu Tyr Thr Phe Pro Val Gly Pro
 20 25 30
 Gly Phe Gln Pro Arg Gly Asn Ile Pro Ala Ser His Gly Arg Arg Glu
 35 40 45
 Phe Arg Val Leu Glu Ile Phe Ile Pro Ser Ala Ala Ser Ala Cys Trp
 50 55 60
 Val
 65

<210> 10289

<211> 274

<212> PRT

<213> Enterobacter cloacae

<400> 10289

Gly Ile Gly Asp Phe Tyr Pro Val Arg Gly Lys Arg Leu Leu Gly Met
 1 5 10 15
 Thr Glu Pro Gly Lys Ala Leu Leu Thr Ile Ala Glu Arg Ile Leu Asn
 20 25 30
 Glu Ala Gly Asn Val Arg Arg Leu Ala Asp Leu Phe Thr Asn Asp Ala
 35 40 45
 Ser Gly Val Met Thr Ile Ala Thr Thr His Thr Gln Ala Arg Tyr Ser
 50 55 60
 Leu Pro Thr Val Ile Lys Ala Phe Arg Glu Ile Phe Pro Asp Val Arg
 65 70 75 80
 Leu Glu Leu Ile Gln Gly Thr Pro Gln Glu Ile Glu Val Leu Met His
 85 90 95
 Asn Gly Gly Ala Asp Ile Gly Ile Ala Ser Glu Arg Leu Ser Asn Asp
 100 105 110
 Pro Leu Leu Val Ala Phe Pro Trp Phe Arg Trp His His Ser Leu Leu
 115 120 125
 Leu Pro Ala Asp His Pro Leu Asn Gln Val Ser Pro Leu Thr Leu Glu
 130 135 140
 Glu Ile Val Lys Trp Pro Leu Ile Thr Tyr Arg Gln Gly Ile Thr Gly
 145 150 155 160
 Arg Ser Arg Ile Asp Glu Ala Phe Lys Arg Lys Gly Leu Thr Pro Asp
 165 170 175
 Val Val Leu Ser Ala Gln Asp Ser Asp Val Ile Lys Thr Tyr Val Glu
 180 185 190
 Leu Gly Leu Gly Ile Gly Leu Val Ala Glu Gln Ser Gly Gly Glu Tyr
 195 200 205
 Glu Ala Gly Asn Leu Val Arg Leu Asp Thr Arg His Leu Phe Asp Ala
 210 215 220
 Asn Thr Val Trp Leu Gly Leu Lys Arg Gly Gln Leu Gln Arg Lys Tyr
 225 230 235 240
 Val Trp Arg Phe Ile Glu Leu Cys Asn Ala Gly Leu Ser Val Asp Glu
 245 250 255
 Ile Lys Arg Gln Val Met Glu Pro Glu Glu Val Ala Ile Asp Tyr Gln
 260 265 270
 Ile

<210> 10290

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10290

```

Asp Thr Val Glu Ser Met Val Arg Ala Leu Arg Thr Gly Asn Tyr Ser
1           5           10           15
Val Val Ile Gly Trp Leu Pro Glu Asp Leu Ser Gln Glu Glu His Leu
          20           25           30
Arg Leu Thr Glu Ala Ala Glu Glu Gly Asn Ala Met Gly Phe Ile Met
          35           40           45
Arg Pro Val Arg Gly Asp Ser Tyr Arg Arg Gly Gln His Pro Gly Leu
          50           55           60
Lys Ile His Ser Asn Val Tyr His
65           70

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<210> 10291

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 10291

```

Ile Thr Gln Ile Phe Met Glu Phe Ile Met Phe Lys Ser Ile Met Thr
1           5           10           15
Val Ser Leu Leu Ala Ala Ala Ile Ala Ser Thr Ser Ala Val Ala Ala
          20           25           30
Asp Asn Ser Ala Gly Gly Ile Ile Asn Phe Thr Gly Ala Ile Thr Asp
          35           40           45
Thr Thr Cys Thr Ile Asn Gly Gly Lys Ser Ala Asp Phe Thr Val Ala
          50           55           60
Leu Ser Pro Ile Ser Val Lys Asp Ala Gly Thr Thr Val Gly Leu Ile
65           70           75           80
Thr Lys Asn Lys Lys Ser Ile Ala Leu Thr Phe Ser Gly Cys Ser Pro
          85           90           95
Ala Ala Gly Thr Thr Gly Thr Pro Leu Lys Val Tyr Phe Ser Ser Ala
          100          105          110
Asp Asn Ile Ser Thr Asp Gly Lys Tyr Leu Leu Asn Asn Ser Val Asn
          115          120          125
Glu Ser Asp Ala Ser Val Ala Arg Asn Val Gly Phe Ala Leu
          130          135          140

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<210> 10292

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 10292

```

Gly Ser Gly Pro Ala Leu Lys Pro Arg Leu Arg Ser Ile Gly Ala Ala
1           5           10           15
Val Asp Pro Arg Arg Asp Arg Pro Arg Ala Pro Val Thr Ala Arg Ile
          20           25           30
Gly Ala Arg Gly Val Pro Ala Arg Phe Asp Arg Thr Ser Thr His Arg
          35           40           45
Arg Gly Met Leu Ala Lys Val His Ile Ala Lys Val Gln Leu Gly Met
          50           55           60
Ser Asp Asp Asp Tyr Val Ala Val Leu Leu Arg Ala Thr Gly Arg Thr
65           70           75           80
Ser Ala Ala Glu Cys Thr Asp Arg Glu Leu Asp Asp Ala Leu Arg Glu
          85           90           95
Phe Lys Arg Leu Gly Phe Glu Pro Gln Ala Arg Ser Pro Lys Ala Ala
          100          105          110
Lys Pro Ala Asp His Pro Leu Ala Leu Lys Ala Arg Ala Leu Trp Ile
          115          120          125

```

Ser Leu His His Leu Cys Ala Ile Ala Asp Pro Ser Glu Lys Ala Leu
 130 135 140
 Glu Ala Phe Ala Arg Arg Gln Leu Gly Cys Asp Arg Leu Gln Trp Ala
 145 150 155 160
 Asn Gln Ser Gln Gly His Arg Leu Ile Glu Ala Leu Lys Ala Ile Ala
 165 170 175
 Ala Arg His Gly Trp Asn Leu Ala Met Asp Gly Val Lys Pro Glu Ala
 180 185 190
 Val Leu Ile Val Thr Lys Arg Arg Leu Val Asp Ala Ile Ala Arg Gln
 195 200 205
 Ala Ala Arg Ala Arg His Arg Ala Gly Arg Val Glu Arg Ala Glu Asp
 210 215 220
 Arg Thr Ala Ala Asp Arg Asp Arg Gly Arg Leu Asp Pro Val Arg Asn
 225 230 235 240
 Arg Arg Gly Thr Gly Pro His Arg Pro Gly Ala Pro Ala Pro Ser Cys
 245 250 255
 Gly Arg Arg Trp Arg Pro Gly Tyr Asp Arg Ala Arg His Pro Arg Ile
 260 265 270
 Cys Arg Ala Val Ser Arg Ala Ala Leu Pro Gly Met Trp Pro Leu
 275 280 285
 Ala Leu Ala Gly Arg Thr Val Leu Gly Gly Met Arg Met Val Pro Pro
 290 295 300
 Arg Ala Ala Pro Cys Ala Gly Arg Ala Gly Ala Asp Arg Gly Met Thr
 305 310 315 320
 Thr Gln Thr Gln Ile Val Ser Arg Asn Glu Gln Ile Glu Glu Leu Ala
 325 330 335
 Ala Arg Pro Val Phe
 340

<210> 10293

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10293

Cys Cys Leu Arg Val Leu Ala Ala Ala Arg Arg Pro Ala Val Phe Leu
 1 5 10 15
 Ala Arg Val Leu Val Glu Arg Phe Pro Leu Cys Leu Gly Phe Leu Gly
 20 25 30
 Leu Val Ser Phe Gly Ala Gly Gly Leu Tyr Ile Gly Leu Arg Thr Ile
 35 40 45
 Pro Val Ile Phe Asp Ile Ile Lys Asp Val Glu Asp Ile Cys Pro Asn
 50 55 60
 Ala Trp Val Ile Asn Phe Thr Asn Pro Ala Gly Met Val Thr Glu Ala
 65 70 75 80
 Val Tyr Arg His Thr Gly Phe Lys Arg Phe Ile Gly Val Cys
 85 90

<210> 10294

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 10294

Ile Ala Phe Pro Ala Ser Pro Val Gly Leu Arg His Leu Lys Val Ser
 1 5 10 15
 Val Ile Arg Phe Leu Val Phe Pro Val Cys Glu Phe Trp Leu Val Asp
 20 25 30
 Val Asp Asp Gly Leu Glu Leu Leu Ile Phe Phe Phe Val Leu Cys Phe
 35 40 45
 Arg Leu Val Asp Phe Ala Gly Val Pro Phe Ser Leu Leu Phe Ser Leu

50 55 60
 Val Arg Arg Leu Ala Leu Phe Asp Ala Val Phe Val Ser Ser Leu Leu
 65 70 75 80
 Arg Val Gly Leu Leu Phe Phe Trp Arg Val Cys Trp Ser Ser Ala Phe
 85 90 95
 Arg Cys Ala Ser Val Phe Trp Ala Trp Phe Pro Ser Gly Leu Val Ala
 100 105 110
 Cys Ile
 115

<210> 10295

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 10295

Phe Ala Asn Gln Arg Glu Arg Gln Ser Leu Phe Phe Ser Thr Thr Phe
 1 5 10 15
 Glu Val Met Gly His Leu Thr Lys Ser Lys Gly Arg Val Thr Glu Ala
 20 25 30
 Asp Ile Gln Val Ala Ser Val Phe Met Asp Arg Met Asn Leu His Gly
 35 40 45
 Glu Ser Arg Ile Ala Ala Gln Asn Ala Phe Arg Ile Gly Lys Ser Asp
 50 55 60
 Asn Tyr Pro Leu Arg Glu Lys Met Arg Gln Phe Arg Ser Ile Cys Phe
 65 70 75 80
 Gly Arg Phe Asp Leu Ile Arg Met Phe Leu Glu Ile Gln Ile Gln Ala
 85 90 95
 Ala Phe Ala Asp Gly Ser Leu His Pro Asn Glu Arg Asp Val Leu Tyr
 100 105 110
 Val Ile Ala Glu Glu Leu Gly Ile Ser Arg Met Gln Phe Asp Gln Phe
 115 120 125
 Leu Arg Met Met Gln Gly Gly Ala Gln Phe Gly Gly Gly Tyr Gln Gln
 130 135 140
 Gln His Ser Ser Gly Gly Trp Gln Gln Ala Gln Arg Gly Pro Thr Leu
 145 150 155 160
 Glu Asp Ala Cys Asn Val Leu Gly Val Lys Pro Ser Asp Asp Val Thr
 165 170 175
 Thr Ile Lys Arg Ala Tyr Arg Lys Leu Met Ser Glu His His Pro Asp
 180 185 190
 Lys Leu Val Ala Lys Gly Leu Pro Pro Glu Met Met Glu Met Ala Lys
 195 200 205
 Gln Lys Ala Gln Glu Ile Gln Lys Ala Tyr Glu Leu Ile Lys Glu Gln
 210 215 220
 Lys Gly Phe Lys
 225

<210> 10296

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 10296

Ala Gly Val Asn Val Pro Asp Ser Val Phe Tyr Thr Ser Ala Met Ala
 1 5 10 15
 Thr Ala Asp Phe Leu Lys Arg Gln Glu Gly Lys Lys Ala Tyr Val Val
 20 25 30
 Gly Glu Gly Ala Leu Ile His Glu Leu Tyr Lys Ala Gly Phe Thr Ile
 35 40 45
 Thr Asp Val Asn Pro Asp Phe Val Ile Val Gly Glu Thr Arg Ser Phe
 50 55 60

```

Asn Trp Glu Met Met His Lys Ala Ala Tyr Phe Val Ala Asn Gly Ala
65          70          75          80
Arg Phe Ile Ala Thr Asn Pro Asp Thr His Gly Arg Gly Phe Tyr Pro
          85          90          95
Ala Cys Gly Ala Leu Cys Ala Gly Ile Glu Lys Ile Ser Gly Arg Lys
          100          105          110
Pro Phe Val Val Gly Lys Pro Ser Pro Trp Ile Ile Arg Ala Ala Leu
          115          120          125
Asn Thr Met Gln Ala His Ser Glu Glu Thr Val Ile Val Gly Asp Asn
          130          135          140
Leu Arg Thr Asp Ile Leu Ala Gly Phe Gln Ala Gly Leu Glu Thr Ile
145          150          155          160
Leu Val Leu Ser Gly Val Ser Gln Leu Asp Asp Ile Asp Thr Met Pro
          165          170          175
Phe Arg Pro Ser Trp Ile Tyr Pro Ser Val Asp Glu Ile Asp Val Ile
          180          185          190

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<210> 10297

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 10297

```

Asn Ala Cys Ala Pro Ser Pro Phe Cys Gly Ile Phe Ile Ser Lys Gln
1          5          10          15
His His Asn Ala Thr Gly Leu Thr Glu Lys Val Met Cys Ser Ile Phe
          20          25          30
Gly Val Leu Asp Ile Lys Thr Asp Ala Gly Glu Leu Arg Lys Lys Ala
          35          40          45
Leu Glu Leu Ser Arg Leu Met Arg His Arg Gly Pro Asp Trp Ser Gly
          50          55          60
Val Tyr Ala Ser Asp Lys Ala Ile Leu Ala His Glu Arg Leu Ser Ile
65          70          75          80
Val Asp Val His Ala Gly Ala Gln Pro Leu Tyr Asn Glu Lys Lys Thr
          85          90          95
Pro Ala Leu Ala Val Lys Arg Glu Ile Tyr Gln His Gln Ala Leu Pro
          100          105          110
Pro Glu
          115

```

<210> 10298

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 10298

```

Arg Leu Ile Met Lys Tyr Gln Phe Phe Trp Ser Ser Thr Pro Lys Ile
1          5          10          15
Tyr Glu Leu Leu Leu Asn Leu Thr Ile Gly Ile Ala Ile Ile Asn Tyr
          20          25          30
Leu Val Pro Thr Glu Gln Gly Lys Ile Gly Phe Leu Ile Asn Leu Cys
          35          40          45
Met Leu Leu Ser Phe Leu Thr Leu Gly Ile Gly Pro Val Phe Ser
          50          55          60
Asn Phe Val Ser Arg Ser Asn Asn Tyr Asn Leu Ile Ser Gly Lys Phe
65          70          75          80
Lys Asp Ser Ile Ser Leu Arg Phe Cys Gly Tyr Ile Val Phe Leu Val
          85          90          95
Ile Ser Phe Leu Leu Ile Tyr Ile Ile Lys Pro Asn Leu Leu Ile Leu

```

```

      100      105      110
Ala Ile Pro Phe Leu Leu Gly Lys Phe Phe Phe Ser Leu Asp Ile Tyr
      115      120      125
Tyr Asn Phe Val Glu Gly Gln Gly Arg Phe Lys Asp Tyr Ala Ile Ser
      130      135      140
Lys Phe Phe Ser Leu Thr Leu Ile Asn Gly Phe Arg Leu Tyr Cys Val
145      150      155      160
Val Gln Lys Leu Asp Val Phe Trp Val Ala Val Ser Tyr Phe Leu Thr
      165      170      175
Asp Phe Leu Thr Phe Phe Met Tyr Phe Ile Phe Tyr Asp Lys Leu Lys
      180      185      190
Leu Leu Gly Phe Arg Phe Asn Tyr Lys Lys Ser Leu Val Leu Leu Lys
      195      200      205
Ile Asn Tyr Lys Leu Ala Leu Ser Ser Leu Arg Arg Cys Arg Ser Arg
      210      215      220
Asp Ile Thr Ser
225

```

<210> 10299

<211> 198

<212> PRT

<213> Enterobacter cloacae

<400> 10299

```

Pro Ile Ala Arg Leu Val Gln Asp Tyr Pro Ile Lys Ser Cys Ser Val
1      5      10      15
Ile Ala His Ile Arg Gln Ala Asn Arg Gly Glu Val Ala Leu Glu Asn
      20      25      30
Thr His Pro Phe Thr Arg Glu Leu Trp Gly Arg Asn Trp Thr Tyr Ala
      35      40      45
His Asn Gly Gln Leu Ser Gly Tyr Lys Ser Leu Glu Thr Gly Asn Phe
      50      55      60
Arg Pro Val Gly Glu Thr Asp Ser Glu Lys Ala Phe Cys Trp Leu Leu
      65      70      75      80
His Lys Leu Thr Glu Arg Tyr Pro Arg Thr Pro Gly Asn Met Thr Ala
      85      90      95
Val Phe Lys Tyr Ile Ala Ser Leu Ala Ser Glu Leu Arg Glu Lys Gly
      100      105      110
Val Phe Asn Met Leu Leu Ser Asp Gly Arg Tyr Val Met Ala Phe Cys
      115      120      125
Ser Thr Asn Leu Phe Trp Ile Thr Arg Arg Ala Pro Phe Gly Val Ala
      130      135      140
Thr Leu Leu Asp Gln Asp Val Glu Ile Asp Phe Gln Lys Glu Thr Thr
145      150      155      160
Pro Asn Asp Val Val Thr Val Ile Ala Thr Gln Pro Leu Thr Gly Asn
      165      170      175
Glu Thr Trp Gln Lys Ile Met Pro Gly Glu Trp Ala Leu Phe Cys Leu
      180      185      190
Gly Asp Arg Val Ile
      195

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<210> 10300

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 10300

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Thr Leu Ile Phe Gln Pro Pro Cys Val Lys Ile Leu Phe Leu Ala Ser
1      5      10      15
Leu Leu Phe Met Ala Pro Ala Ala Phe Ala Ala Thr Thr Trp Pro Leu
      20      25      30

```

Thr Ile Glu Asn Cys Gly Val Lys Gln Thr Phe Thr Gln Ala Pro Gln
 35 40 45
 Arg Val Val Thr Val Gly Gln His Glu Thr Glu Leu Leu Ala Leu
 50 55 60
 Gly Leu Glu Lys Thr Ile Ala Ala Thr Ser Val Trp Phe Gly Thr Leu
 65 70 75 80
 Pro Pro Thr Leu Glu Asp Ala Gly Lys Asn Leu Pro Arg Leu Ala Asp
 85 90 95
 Tyr Ser Pro Ser Phe Glu Ala Val Val Gly Gln Lys Pro Glu Leu Val
 100 105 110
 Leu Ala Gln Tyr His Trp His Ile Gly Pro Gln Gly Glu Val Gly Thr
 115 120 125
 Arg Glu Gln Phe Ala Ser Leu Gly Ile Asn Thr Trp Ile Ser Pro Ala
 130 135 140
 Asp Cys Thr Asp Lys Thr Val Thr Glu Thr Ser Asn Ala Asp Gly Ala
 145 150 155 160
 Arg Ser Ala Pro Phe Ser Leu Ala Glu Ile Thr Arg Glu Val Thr Asp
 165 170 175
 Leu Ala Thr Ile Phe Asp Val Ser Ala Arg Gly Glu Gln Leu Asn Arg
 180 185 190
 Ala Leu Ala Glu Arg Ile Lys Lys Ala Gln Ala Arg Ala Ser Ala Lys
 195 200 205
 Gln Leu Ser Val Val Phe Trp Phe Ser Ser Ser Arg Leu Asn Gly Asp
 210 215 220
 Pro Trp Val Ala Gly Asn Tyr Gly Ala Pro Gly Trp Ile Ser Arg Thr
 225 230 235 240
 Leu Gly Leu Lys Asn Ile Ile Asp Ser His Asp Glu Trp Pro Ala Val
 245 250 255
 Thr Trp Glu His Ile Ala Arg Ser Gln Pro Asp Val Ile Val Ile Ala
 260 265 270
 Gly Met Ser Arg Arg Leu Tyr Pro Ala Asp Glu Val Glu Val Lys Lys
 275 280 285
 Ala Phe Leu Arg Ser Asp Pro Val Thr Lys Asn Met Pro Ala Val Arg
 290 295 300
 Asn Asn His Ile Ile Val Val Pro Ala Met Ser Leu Asn Pro Ser Leu
 305 310 315 320
 Arg Asn Val Asp Ala Val Glu Leu Ile
 325

<210> 10301

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10301

Gly Tyr Thr Arg Ala Thr Met Ala His Thr Lys Arg Ser Asp Leu Ala
 1 5 10 15
 Arg Ala Ser Gly Pro His Lys Val Arg Ser Pro Asp Trp Ser Leu
 20 25 30
 Gln Leu Asp Ser Met Lys Ser Glu Ser Leu Val Ile Val Asp Gln Asn
 35 40 45
 Ala Thr Val Asn Thr Phe Pro Gly Leu Val His Thr Ala Arg His Thr
 50 55 60
 Met Gly Val Gly Cys Lys Arg Ser Arg
 65 70

<210> 10302

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 10302

Pro Lys Arg Arg Pro Ser Gly Ala Met Glu Leu Asp Asn Ala Asn Asn
 1 5 10 15
 Val Gly Gly Tyr Pro Gly Tyr Ser Ile Thr Asn Leu Ala Pro Phe Leu
 20 25 30
 Gln Ala Arg Tyr Asp Ile Asp Ala Ile Thr Leu Ser Gly Gly Val Arg
 35 40 45
 Tyr Gln Tyr Thr Glu Asn Lys Val Asp Asp Phe Val Gly Tyr Ala Gln
 50 55 60
 Gln Gln Ala Ile Ala Thr Gly Lys Ala Thr Ser Ala Asp Ala Val Pro
 65 70 75 80
 Gly Gly Lys Thr Asp Tyr Asn Asn Phe Leu Phe Asn Ala Gly Ile Leu
 85 90 95
 Gly Arg Leu Thr Glu Gln Gln Gln Leu Trp Phe Asn Phe Ser Gln Gly
 100 105 110
 Phe Glu Ile Pro Asp Leu Ala Lys Tyr Tyr Gly Ser Gly Thr Tyr Gln
 115 120 125
 Leu Val Asp Gly His Tyr Arg Leu Gln Asn Ser Val Asn Val Asn Asp
 130 135 140
 Ser Thr Leu Asp Gly Ile Lys Val Asn Ala Tyr Glu Leu Gly Trp Arg
 145 150 155 160
 Phe Thr Gly Asp Asn Leu Arg Thr Gln Val Ala Ala Tyr Tyr Ser Leu
 165 170 175
 Ser Asp Lys Thr Ile Thr Ile Asn Lys Ser Asp Met Thr Ile Asn Leu
 180 185 190
 Glu Asp Asp Lys Arg Arg Ile Tyr Gly Val Glu Gly Gln Val Asp Tyr
 195 200 205
 Phe Phe Thr Asp Ser Asp Trp Ser Thr Gly Ala Asn Phe Asn Ala Ile
 210 215 220
 Lys Ser Glu Thr Arg Glu Asn Gly Lys Trp Glu Lys Leu Thr Val Asp
 225 230 235 240
 Ser Ala Ser Pro Ser Lys Ala Ser Ala Trp Val Asn Trp Ala Pro Gly
 245 250 255
 Asp Trp Thr Leu Arg Val Gln Ser Thr Gln Thr Phe Asp Val Ser Asp
 260 265 270
 Ala Asp Gly Lys Lys Ile Asp Gly Tyr Asn Thr Val Asp Phe Leu Gly
 275 280 285
 Ser Tyr Ala Leu Pro Val Gly Lys Val Ser Phe Ser Val Glu Asn Leu
 290 295 300
 Leu Asp Lys Asp Tyr Thr Thr Ala Trp Gly Gln Arg Ala Pro Gly Leu
 305 310 315 320
 Tyr Ser Pro Thr Tyr Gly Ala Pro Gly Leu Ser Thr Tyr Val Phe Ser
 325 330 335
 Thr Arg Arg Pro Arg Ile Arg Arg Lys
 340 345

<210> 10303

<211> 205

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (205)

<400> 10303

Arg Asn Asn Lys Ile Gln Arg Met Lys Lys Arg Ile Pro Thr Leu Leu
 1 5 10 15
 Asp Thr Met Ile Gly Thr Ala Leu Tyr Ser Gln Gln Gly Leu Ala Ala
 20 25 30
 Asp Leu Ala Ser Gln Cys Met Leu Gly Val Pro Ser Tyr Asn Arg Pro

```

      35          40          45
Leu Val Lys Gly Asp Thr Asn Asp Leu Pro Val Thr Ile Asn Ala Asp
 50          55          60
Ser Ala Lys Gly Asn Tyr Pro Asp Asn Ala Thr Phe Thr Gly Asn Val
 65          70          75          80
Asp Ile Asn Gln Gly Asn Ser Arg Leu Leu Ala Asp Glu Val Gln Leu
      85          90          95
His Gln Lys Gln Pro Glu Gly Ala Gln Ala Pro Val Arg Thr Val Asp
      100          105          110
Ala Leu Gly Asn Val His Tyr Asp Asp Asn Gln Val Ile Leu Lys Gly
      115          120          125
Pro Lys Ala Trp Ser Asn Leu Asn Thr Lys Asp Thr Asn Val Trp Glu
      130          135          140
Gly Asp Tyr Gln Met Val Gly Arg Gln Gly Arg Gly Thr Ala Asp Leu
      145          150          155          160
Met Lys Gln Arg Gly Glu Asn Arg Tyr Thr Ile Leu Glu Asn Gly Thr
      165          170          175
Phe Thr Ser Cys Leu Pro Arg Ser Asn Thr Trp Ser Val Val Gly Ser
      180          185          190
Glu Val Ile His Asp Arg Glu Glu Gln Val Ala Glu Xaa
      195          200          205

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<210> 10304

<211> 122

<212> PRT

<213> Enterobacter cloacae

<400> 10304

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Val Glu Thr Thr Lys Leu Trp Ile Ser Leu Gly Thr Ile Val Ser Pro
 1          5          10          15
Ile Thr Gly Thr Phe Phe Thr Lys Ile Ile Thr Gln Tyr Asn His Lys
      20          25          30
Tyr Leu Leu Trp Tyr Asn Gly Glu Tyr Leu Ile Lys Pro Gly Asp Asn
      35          40          45
Ile Lys Val Asn Asn Asn Gly Ile Val Ile Ser Glu Lys Leu Arg Lys
      50          55          60
Ile Asn Ile Ile Gln Ile Asp Lys Tyr Ser Pro Thr Leu Trp Arg Val
      65          70          75          80
Met His Asn Met Ser Ser Cys Pro Gly Asp Lys Glu Pro Glu Asn Ser
      85          90          95
Phe Cys Thr Ser Ser Val Arg Cys Ile Phe Lys Thr Cys Pro Tyr Gly
      100          105          110
Lys Lys Arg Arg Asn Ala Cys Lys Arg
      115          120

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<210> 10305

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 10305

```

Asp Ser Gly His Tyr Asn Lys Ser Leu Gly Trp Leu Ser Leu Phe Ala
 1          5          10          15
Gly Thr Val Leu Leu Ser Gly Cys Asp Ser Ala Leu Leu Asp Pro Lys
      20          25          30
Gly Gln Ile Gly Leu Glu Gln Arg Ser Leu Ile Leu Thr Ala Phe Gly
      35          40          45
Leu Met Leu Ile Val Val Ile Pro Ala Ile Leu Met Ala Val Gly Phe
      50          55          60
Ala Trp Lys Tyr Arg Ala Ser Asn Lys Asp Ala Lys Tyr Ser Pro Asn
      65          70          75          80

```

Trp Ser His Ser Asn Lys Val Glu Ala Val Val Trp Thr Val Pro Ile
 85 90 95
 Leu Ile Ile Leu Phe Leu Ala Val Leu Thr Trp Lys Thr Thr His Ala
 100 105 110
 Leu Glu Pro Ser Lys Pro Leu Val His Asp Glu Lys Pro Ile Thr Ile
 115 120 125
 Glu Val Val Ser Met Asp Trp Lys Trp Phe Phe Ile Tyr Pro Glu Gln
 130 135 140
 Gly Ile Ala Thr Val Asn Glu Ile Ala Phe Pro Ala Asn Thr Pro Val
 145 150 155 160
 Gln Phe Lys Val Thr Ser Asn Ser Val Met Asn Ser Phe Phe Ile Pro
 165 170 175
 Arg Leu Gly Ser Gln Ile Tyr Ala Met Ala Gly Met Gln Thr Asn Leu
 180 185 190
 His Leu Ile Ala Asn Glu Ala Gly Thr Tyr Asp Gly Ile Ser Ala Ser
 195 200 205
 Tyr Ser Gly Pro Gly Phe Ser Gly Met Lys Phe Lys Ala Ile Ala Thr
 210 215 220
 Pro Asp Arg Ala Thr Phe Asp Gln Trp Val Ala Lys Ala Lys Gln Ser
 225 230 235 240
 Thr Asn Thr Met Ser Asp Met Ala Ala Phe Glu Lys Val Ala Ala Pro
 245 250 255
 Ser Glu Tyr Asn Lys Gly Gly Val Leu Leu
 260 265

<210> 10306

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 10306

Pro Ala Thr Gly Leu Phe Pro Gln Trp Ser Arg Cys Pro Gly Thr Gly
 1 5 10 15
 Gly Val Asp Leu Arg Gln Ser Gly Ala Ile Leu Met Lys Arg Val Ala
 20 25 30
 Phe Val Phe Thr Ser Ala Pro His Gly Ser Ala Ser Gly Arg Glu Gly
 35 40 45
 Leu Asp Ala Leu Leu Ala Thr Ser Ala Leu Thr Glu Asp Ile Gly Val
 50 55 60
 Phe Phe Leu Gly Asp Gly Val Phe Gln Leu Leu Ala Gly Gln Gln Pro
 65 70 75 80
 Gln Ala Ile Leu Ala Arg Asp Tyr Ile Ala Thr Phe Lys Val Leu Pro
 85 90 95
 Leu Tyr Asp Ile Glu Thr Phe Tyr Val Cys Ala Asp Ser Leu Ala Ala
 100 105 110
 Arg Gly Leu Asn Glu Lys Thr Pro Phe Val Leu Asp Val Thr Ile Leu
 115 120 125
 Thr Ser Ala Ala Leu Arg Glu Gln Leu Ser His Tyr Asp Thr Val Leu
 130 135 140
 Thr Phe
 145

<210> 10307

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 10307

Ile Ile Pro Pro Gly Ser Lys Ser Gly Asp Phe Ser Trp Asp Lys Thr
 1 5 10 15
 Ser Asn Ala Phe Cys Val Asn Gly Asp Gly Pro Arg Arg Thr Val Pro

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<210> 10308
<211> 205
<212> PRT
<213> Enterobacter cloacae
```

His 1	Lys	Leu	Asp	Arg 5	Gln	Ala	Arg	Gly	Glu 10	Glu	Leu	Arg	Ile	Ile 15	Phe
Ile	Leu	Leu	Ser	Asp 20	Val	Phe	Asn	Leu	Tyr 25	Arg	Asp	Ser	His 30	Val	Lys
Tyr	Gln	Gln	Ser	Tyr	Gln	Asn	Ser	Ile	Arg	Asp	Pro	Leu	Thr	Arg	Leu
Tyr	Asn	Arg	Ser	Tyr	Phe	Tyr	Asp	Ser	Leu	Asn	His	Ala	Leu	Asn	Thr
Ala	Thr	Val	Thr	His	Pro	Val	Ser	Val	Val	Val	Ser	Asp	Leu	Asp	Arg
65					70					75					80
Phe	Lys	Arg	Ile	Asn	Asp	Cys	Tyr	Gly	His	Leu	Gln	Gly	Asp	Arg	Val
				85					90					95	
Leu	Gln	Phe	Val	Ser	Asn	Leu	Leu	Thr	Asp	Ser	Val	Arg	Pro	Gln	Asp
			100					105					110		
Ile	Ala	Ala	Arg	Ile	Gly	Gly	Glu	Glu	Phe	Val	Leu	Met	Leu	Thr	Asn
			115				120					125			
Thr	Pro	Ser	Asp	Val	Ala	His	Gln	Val	Ala	Glu	Arg	Ile	Arg	Leu	Lys
						135					140				
Leu	Ser	Gly	Phe	Asp	Lys	Ala	Ser	Ser	Gly	Gly	Gln	Leu	Pro	Glu	Pro
145					150					155					160
Ile	Thr	Ile	Ser	Met	Gly	Val	Phe	Thr	Ala	Thr	Ser	Pro	Glu	Thr	Ser
				165					170					175	
Ala	Glu	Thr	Cys	Val	Glu	Ser	Ala	Asp	Lys	Ala	Met	Tyr	Glu	Ala	Lys
			180					185					190		
Glu	Thr	Gly	Arg	Asn	Arg	Val	Val	Val	Phe	Arg	Thr				
			195				200						205		

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<210> 10309
<211> 130
<212> PRT
<213> Enterobacter cloacae
```

Arg Arg Ala Leu Ile Asp His Arg Leu Lys Pro Leu Glu Leu Thr Gln
1 5 10 15
Thr His Trp Val Thr Leu His Asn Ile His Gln Leu Pro Pro Asp Gln
20 25 30

Ser Gln Ile Gln Leu Ala Lys Ala Ile Gly Ile Glu Gln Pro Ser Leu
 35 40 45
 Val Arg Thr Leu Asp Gln Leu Glu Lys Gly Leu Ile Ser Arg Gln
 50 55 60
 Thr Cys Ala Ser Asp Arg Arg Ala Lys Arg Ile Lys Leu Thr Glu Lys
 65 70 75 80
 Ala Ala Pro Ile Ile Thr Glu Met Glu Thr Val Ile Ser Lys Thr Arg
 85 90 95
 Gly Glu Ile Leu Ala Gly Ile Ser Pro Ala Glu Leu Glu Met Leu Ile
 100 105 110
 Gly Leu Ile Ala Arg Leu Glu Gln Asn Ile His Asp Leu Gln Ser Arg
 115 120 125
 Asp
 130

<210> 10310

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 10310

Arg Leu Glu Gly Ser Lys Thr His Arg Glu Trp Arg Val Pro Val Val
 1 5 10 15
 Arg Gln Leu Arg Leu Arg Leu Gln Leu Leu Leu Ser Arg Ala Thr Glu
 20 25 30
 Ala Gly Ala Gly Pro Lys Asp Asn Leu Phe Asp Val Ser Phe Tyr Ile
 35 40 45
 Ala Gly Arg Lys Ala Lys Phe Glu Arg Asn Asp Val Ser Val Met His
 50 55 60
 Gln Lys Ile Arg Ser Phe Phe Arg Arg Leu Ser Lys Glu Cys Gly Phe
 65 70 75 80
 Ala Val Ser Pro His Arg Phe Arg His Thr Leu Ala Thr Glu Leu Met
 85 90 95
 Lys Ala Pro Glu Arg Asn Leu Gln Leu Val Lys Asp Leu Leu Gly His
 100 105 110
 Arg Ser Val Ser Thr Thr Met Glu Tyr Val Glu Leu Arg Met Asp Ile
 115 120 125
 Val Gly Lys Thr Leu Glu Glu Leu Ser Leu His Thr Asp Leu Cys
 130 135 140
 Val Glu Arg Glu Leu Gln Leu Leu Thr Gln Asn
 145 150 155

<210> 10311

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 10311

Ser Trp Asn Pro Asn Glu Leu Leu Thr Gly Lys Thr Glu Cys Asn Lys
 1 5 10 15
 Cys Glu Glu Ala Ser Pro Gly Asn Val Thr Leu Lys Thr Ile Glu Gly
 20 25 30
 Val Val Arg Asn Val Pro Phe Tyr Gly Glu Ile Ala Gly Ser Arg Val
 35 40 45
 Lys Lys Gly Pro Trp Trp Leu Ile Ile Leu Lys Arg Trp Leu Gln Lys
 50 55 60
 Ser Leu Thr Arg Gly Phe Ser His Phe Asn Pro Asp Gln Tyr Asn Gly
 65 70 75 80
 Ala Cys Leu Leu Gly Leu Arg Gly Ile Val Ile Lys Ser His Gly Ala
 85 90 95
 Ala Asn Gln Arg Ala Phe Thr Val Ala Ile Glu Gln Ala Val Gln Ala

100 105 110
 Val Gln Arg Gln Val Pro Gln Arg Ile Ala Ala Arg Leu Gly Ser Val
 115 120 125
 Leu Ala Lys Ser Asp
 130

<210> 10312

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 10312

Ala Tyr Met Tyr Thr Lys Ile Leu Gly Thr Gly Ser Tyr Leu Pro Lys
 1 5 10 15
 Gln Val Arg Thr Asn Ala Asp Leu Glu Lys Met Val Asp Thr Ser Asp
 20 25 30
 Glu Trp Ile Val Thr Arg Thr Gly Ile Arg Glu Arg Arg Ile Ala Ala
 35 40 45
 Pro Asp Glu Thr Val Ser Thr Met Gly Tyr Glu Ala Ala Gln Arg Ala
 50 55 60
 Leu Glu Met Ala Gly Ile Asp Lys Glu Gln Ile Gly Leu Ile Val Val
 65 70 75 80
 Ala Thr Thr Ser Ala Thr His Ala Phe Pro Ser Ala Ala Cys Gln Val
 85 90 95
 Gln Asn Met Leu Gly Ile Lys Gly Cys Pro Ala Phe Asp Val Ala Ala
 100 105 110
 Ala Cys Ala Gly Phe Thr Tyr Ala Leu Ser Ile Ala Asp Gln Tyr Val
 115 120 125
 Lys Ser Gly Ala Val Lys Tyr Ala Leu Val Ile Gly Ala Asp Val Leu
 130 135 140
 Ala Arg Thr Cys Asp Pro Thr Asp Arg Gly Thr Ile Ile Phe Gly
 145 150 155 160
 Asp Val Leu Pro Ser Pro Trp Lys Ile Arg Ile Cys Val
 165 170

<210> 10313

<211> 263

<212> PRT

<213> Enterobacter cloacae

<400> 10313

Gln Val Thr Val Thr Asn Asp Asn Gly Lys Leu Asp Ile Arg Leu Thr
 1 5 10 15
 Gly Pro Trp Arg Glu Val Ile Met Trp Glu Val Pro Leu Leu Ala Val
 20 25 30
 Ile Ser Glu Leu Ala His Arg Tyr Arg Ser Pro Glu Thr Gly Val Thr
 35 40 45
 Gln Ala Val Ala Ala Leu Glu Asn Lys Leu Val Glu Phe Ser Arg Leu
 50 55 60
 Thr Glu Gly Leu Asp Met Ser Arg Phe Arg Leu Met Asp Phe Gly Thr
 65 70 75 80
 Arg Arg Arg Phe Ser Arg Glu Val Gln Glu Ala Ile Val Arg Arg Leu
 85 90 95
 Gln Gln Glu Pro Trp Phe Val Gly Thr Ser Asn Tyr Asp Leu Ala Arg
 100 105 110
 Arg Leu Asp Leu Thr Pro Met Gly Thr Gln Ala His Glu Trp Phe Gln
 115 120 125
 Ala His Gln Gln Ile Ser Pro Asp Leu Ala Asn Ser Gln Arg Ala Ala
 130 135 140
 Leu Ala Ala Trp Leu Glu Glu Tyr Pro Asp Arg Leu Gly Ile Ala Leu
 145 150 155 160

Thr Asp Cys Ile Thr Met Asp Ala Phe Leu Arg Asp Phe Gly Pro Glu
 165 170 175
 Phe Ala Glu Arg Tyr Gln Gly Leu Arg His Asp Ser Gly Asp Pro Val
 180 185 190
 Glu Trp Gly Glu Lys Ala Ile Ala His Tyr Glu Lys Leu Gly Ile Asp
 195 200 205
 Pro Met Ser Lys Val Leu Val Phe Ser Asp Asn Leu Asp Leu Ser Lys
 210 215 220
 Ala Val Asp Leu Tyr Arg His Phe Ser Ser Arg Val Asn Leu Ser Phe
 225 230 235 240
 Gly Ile Gly Thr Arg Leu Thr Cys Asp Ile Pro Gln Val Lys Pro Leu
 245 250 255
 Asn Ile Val Ile Lys Leu Val
 260

<210> 10314

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 10314

Thr Ser Asp Gln Thr Val Thr Thr Gln Lys Gln Gln Ile Glu Glu Ala
 1 5 10 15
 Gly Tyr Gln Val Ser Lys Cys Phe Thr Asp Glu Ala Val Ser Gly Gly
 20 25 30
 Ile Lys Asp Thr Glu Arg Lys Gly Phe Ser Asp Leu Leu Asn Tyr Val
 35 40 45
 Arg Glu Gly Asp Thr Leu Val Val Ile Gly Ile Asp Arg Leu Gly Arg
 50 55 60
 Asn Thr Ile Asp Val Leu Ser Thr Val Glu Thr Leu Gln Ala Lys Gly
 65 70 75 80
 Val Lys Val Ile Ser Leu Arg Glu Gly Phe Asp Leu Ser Thr Pro Val
 85 90 95
 Gly Lys Ala Met Leu Thr Met Met Ala Gly Leu Ala Ser Leu Glu Lys
 100 105 110
 Asp Leu Ile Ala Glu Arg Arg Thr Ala Gly Ile Lys Arg Ala Gln Ser
 115 120 125
 Glu Gly Val His Cys Gly Arg Pro Ile Lys Ala Thr Thr Glu Gln Val
 130 135 140
 Gln Glu Leu Ile Ala Gln Gly Tyr Phe Pro Ala Gln Val Gln Glu Glu
 145 150 155 160
 Leu Gly Ile Ser Lys Ala Thr Phe Tyr Arg Leu Asn Lys
 165 170

<210> 10315

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 10315

Cys Met Asn Leu Ile Ser Ile Ser Ala Phe Gln Asp Asn Tyr Ile Trp
 1 5 10 15
 Val Leu Val Asp Asp Asp Arg Arg Cys Ile Ile Val Asp Pro Gly Glu
 20 25 30
 Ser Ala Pro Ile Leu His Ala Ile Lys Glu Asn Gly Trp Gln Pro Glu
 35 40 45
 Ala Ile Leu Leu Thr His His His His Asp His Val Gly Gly Val Pro
 50 55 60
 Asp Leu Leu Ala Arg Tyr Pro His Leu Pro Val Tyr Gly Pro Ala Glu
 65 70 75 80
 Thr Gln Asp Lys Gly Thr Thr Gln Val Val Glu Glu Gly Glu Ser Ile

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<210> 10316
<211> 140
<212> PRT
<213> Enterobacter cloacae
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<210> 10317
<211> 283
<212> PRT
<213> Enterobacter cloacae
```

<400> 10317															
Ser	Gln	Ala	Phe	Val	Arg	Asn	Tyr	Gly	Tyr	Glu	Leu	Ala	His	Arg	Val
1				5					10					15	
Ile	Cys	Ala	Leu	Arg	Ala	Ala	Leu	Val	Glu	Lys	Ser	Met	Asn	Asp	Glu
			20					25					30		
Met	Lys	Asn	Lys	Ser	Gly	Lys	Val	Lys	Val	Met	Tyr	Val	Arg	Ser	Asp
		35					40					45			
Asp	Asp	Ser	Asp	Lys	Arg	Thr	Gln	Asn	Pro	Arg	Thr	Gly	Lys	Gly	Gly
	50					55					60				
Gly	Arg	Pro	Ala	Ser	Ser	Arg	Ala	Asp	Gly	Gly	Arg	Arg	Pro	Ala	Arg
65					70					75				80	
Asp	Asp	Arg	Asn	Asn	Arg	Gly	Asp	Asp	Arg	Lys	Arg	Asp	Asp	Arg	Lys
				85					90					95	

Arg Asp Asp Arg Lys Arg Asp Asp Phe Val Arg Asp Gly Gly Ser Pro
 100 105 110
 Trp Arg Thr Val Ser Arg Ala Pro Gly Glu Glu Thr Thr Glu Lys Ala
 115 120 125
 Asp His Gly Gly Ile Ser Gly Lys Ser Phe Ile Asp Pro Glu Val Leu
 130 135 140
 Arg Arg Gln Arg Ala Glu Glu Thr Arg Val Tyr Gly Glu Asn Ala Cys
 145 150 155 160
 Gln Ala Leu Phe Gln Ser Arg Pro Glu Cys Ile Val Arg Ala Trp Phe
 165 170 175
 Ile Gln Ser Val Thr Pro Arg Phe Lys Glu Ala Leu Arg Trp Met Ala
 180 185 190
 Ala Asn Arg Lys Ala Tyr His Val Asp Asp Ala Glu Leu Thr Lys
 195 200 205
 Ala Ser Gly Thr Glu His His Gly Gly Val Cys Phe Leu Ile Lys Lys
 210 215 220
 Arg Asn Gly Thr Thr Val Gln Gln Trp Val Ser Gln Ala Asp Ala Asp
 225 230 235 240
 Asp Cys Val Leu Ala Leu Glu Asp Val Gly Asn Pro His Asn Leu Gly
 245 250 255
 Ala Met Met Arg Ser Cys Ala His Phe Gly Val Lys Gly Val Leu Leu
 260 265 270
 Gln Asp Ala Ala Leu Leu Glu Ser Gly Ala Ala
 275 280

<210> 10318

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 10318

Met Lys Thr Phe Thr Ala Lys Pro Glu Thr Val Gln Arg Asp Trp Tyr
 1 5 10 15
 Val Val Asp Ala Thr Gly Lys Thr Leu Gly Arg Leu Ala Thr Glu Leu
 20 25 30
 Ala Arg Arg Leu Arg Gly Lys His Lys Ala Glu Tyr Thr Pro His Val
 35 40 45
 Asp Thr Gly Asp Tyr Ile Ile Val Leu Asn Ala Asp Lys Val Ala Val
 50 55 60
 Thr Gly Asn Lys Arg Thr Asp Lys Met Tyr Tyr His His Thr Gly His
 65 70 75 80
 Ile Gly Gly Ile Lys Glu Ala Thr Phe Glu Glu Met Ile Ala Arg Arg
 85 90 95
 Pro Glu Arg Val Ile Glu Ile Ala Val Lys Gly Met Leu Pro Lys Gly
 100 105 110
 Pro Leu Gly Arg Ala Met Phe Arg Lys Leu Lys Val Tyr Ala Gly Asn
 115 120 125
 Glu His Asn His Ala Ala Gln Gln Pro Gln Val Leu Asp Ile
 130 135 140

<210> 10319

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 10319

Ala Met Ala Glu Asn Gln Tyr Tyr Gly Thr Gly Arg Arg Lys Ser Ser
 1 5 10 15
 Ala Ala Arg Val Phe Ile Lys Pro Gly Ser Gly Lys Ile Val Ile Asn
 20 25 30
 Gln Arg Ser Leu Glu Gln Tyr Phe Gly Arg Glu Thr Ala Arg Met Val

35 40 45
 Val Arg Gln Pro Leu Glu Leu Val Asp Met Val Glu Lys Leu Asp Leu
 50 55 60
 Tyr Ile Thr Val Lys Gly Gly Gly Ile Ser Gly Gln Ala Gly Ala Ile
 65 70 75 80
 Arg His Gly Ile Thr Arg Ala Leu Met Glu Tyr Asp Glu Ser Leu Arg
 85 90 95
 Ser Glu Leu Arg Lys Ala Gly Phe Val Thr Arg Asp Ala Arg Gln Val
 100 105 110
 Glu Arg Lys Lys Val Gly Leu Arg Lys Ala Arg Arg Arg Pro Gln Phe
 115 120 125
 Ser Lys Arg
 130

<210> 10320

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 10320

Thr Ser Val Arg Gln Leu Arg Pro Asp Ala Ala Leu Ala Ser Ile Lys
 1 5 10 15
 Ser Thr Val Leu Val Ile Ala Val His Gln Ser Ile Gly Ala Gly Ile
 20 25 30
 Ala Leu Ala Ile Pro Leu Thr Ala Ala Gly Gln Val Leu Thr Ile Ile
 35 40 45
 Val Arg Thr Ile Thr Val Ala Phe Gln His Ala Ala Asp Lys Ala Ala
 50 55 60
 Glu Asn Gly Asn Leu Thr Ala Leu Ser Trp Ile His Val Ser Ser Leu
 65 70 75 80
 Phe Leu Gln Ala Met Arg Ile Ala Ile Pro Ala Val Ile Val Ala Ile
 85 90 95
 Ser Val Gly Thr Ser Glu Val Gln Gly Met Leu Asn Ala Ile Pro Glu
 100 105 110
 Val Val Thr Ser Gly Leu Asn Ile Ala Gly Gly Met Ile Val Val Val
 115 120 125
 Gly Tyr Ala Met Val Ile Asn Met Met Arg Ala Gly Tyr Leu Met Pro
 130 135 140
 Phe Phe Tyr Leu Gly Phe Val Thr Ala Ala Phe Thr Asn Phe Asn Leu
 145 150 155 160
 Val Ala Leu Gly Val Ile Gly Ala Val Met Ala Ile Leu Tyr Ile Gln
 165 170 175
 Leu Ser Pro Lys Tyr Asn Arg Val Ala Gly Ala Pro Ala Gln Ala Ala
 180 185 190
 Gly Asn Asn Asp Leu Asp Asn Glu Leu Asp
 195 200

<210> 10321

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 10321

Gln Val Ser Glu Met Val Asp Met Thr Lys Thr Thr Thr Glu Lys Lys
 1 5 10 15
 Leu Thr Pro Gly Asp Ile Arg Gly Val Phe Ile Arg Ser Asn Leu Phe
 20 25 30
 Gln Gly Ser Trp Asn Phe Glu Arg Met Gln Ala Leu Gly Phe Cys Phe
 35 40 45
 Ser Met Val Pro Ala Ile Lys Arg Leu Tyr Pro Glu Asn Asn Glu Ala
 50 55 60

Arg Arg Gln Ala Ile Lys Arg His Leu Glu Phe Phe Asn Thr His Pro
 65 70 75 80
 Tyr Val Ala Ala Pro Val Leu Gly Val Thr Leu Ala Met Glu Glu His
 85 90 95
 Arg Ala Asn Gly Ala Glu Ile Asp Asp Gly Ala Ile Asn Gly Ile Lys
 100 105 110
 Val Gly Leu Met Gly Pro Leu Ala Gly Val Gly Asp Pro Ile Phe Trp
 115 120 125
 Gly Thr Val Arg Pro Val Phe Ala Ala Leu Gly Ala Gly Ile Ala Met
 130 135 140
 Ser Gly Ser Leu Leu Gly Pro Leu Leu Phe Phe Ile Leu
 145 150 155

<210> 10322

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 10322

Ser Val Gly Leu Arg Val Ser Ser Gly Cys Met Arg Met Asn Ala Pro
 1 5 10 15
 Asp Ile Lys Ala Leu Phe Glu Gln Val Arg Val Gly Thr Arg Val Gln
 20 25 30
 Ile Ile Asn Glu Pro Val Lys Phe Ser Val Glu Pro Asp Gly Lys Arg
 35 40 45
 Tyr Ile Glu Val His Arg Pro Leu Ala Gln Ala Glu Gly Glu Asn Pro
 50 55 60
 Gln Thr Val Pro Phe Thr His Ser Ala Ala Phe Thr Ala Phe Ala Ala
 65 70 75 80
 Glu Ser Gly Ser Asp Lys Thr Leu Ile Asp Lys Ala Leu Ala Arg Arg
 85 90 95
 Ala Gly Ile Pro Val Ala Val Ser Thr Gly Asn Gly Ser Ser Ala Ser
 100 105 110
 Asn Ser Val Leu Ser Val Gln Asn Ser Arg Val Ser Ala Ala Val Ala
 115 120 125
 Glu Asp Glu Gly Glu Lys Ala Leu Gln
 130 135

<210> 10323

<211> 216

<212> PRT

<213> Enterobacter cloacae

<400> 10323

Leu Leu Ala Leu Thr Ala Ile Arg Tyr Thr Pro Leu Cys Tyr Phe Ile
 1 5 10 15
 Asn Thr Glu Gly Leu Ser Cys Met Tyr Gln Asp Leu Ile Arg Asn Glu
 20 25 30
 Leu Asn Glu Ala Ala Glu Thr Leu Ala Asn Phe Leu Lys Asp Asp Ala
 35 40 45
 Asn Ile His Ala Ile Gln Arg Ala Ala Val Leu Leu Ala Asp Ser Phe
 50 55 60
 Lys Ala Gly Gly Lys Val Leu Ser Cys Gly Asn Gly Gly Ser His Cys
 65 70 75 80
 Asp Ala Met His Phe Ala Glu Glu Leu Thr Gly Arg Tyr Arg Glu Asn
 85 90 95
 Arg Pro Gly Tyr Pro Ala Ile Ala Ile Ser Asp Val Ser His Ile Ser
 100 105 110
 Cys Val Gly Asn Asp Phe Gly Tyr Asp His Ile Phe Ser Arg Tyr Val
 115 120 125
 Glu Ala Val Gly Arg Glu Gly Asp Val Leu Leu Gly Ile Ser Thr Ser

130		135		140
Gly Asn Ser Ala Asn Val Ile Lys Ala Ile Ala Ala Arg Glu Lys				
145		150		155
Gly Met Lys Val Ile Thr Leu Thr Gly Lys Asp Gly Gly Lys Met Asp				
	165		170	175
Gly Thr Ala Asp Ile Glu Ile Arg Val Pro His Phe Gly Tyr Ala Asp				
	180		185	190
Arg Val Gln Glu Ile His Ile Lys Val Ile His Ile Leu Ile Gln Leu				
	195	200		205
Ile Glu Lys Glu Met Val Lys				
210		215		

<210> 10324

<211> 290

<212> PRT

<213> Enterobacter cloacae

<400> 10324

Arg Arg Phe Ser Ala Ile Pro Leu Val Asp Tyr Phe Tyr Gly Leu Val				
1	5		10	15
Val Val Ile Trp Gly Thr Thr Trp Ile Ala Ile Phe Leu Gln Gly				
	20		25	30
Pro Val Ala Ala Pro Val Ser Ile Phe Trp Arg Phe Ala Val Ala Ser				
	35		40	45
Ala Thr Met Met Ile Val Leu Val Ala Leu Arg Arg Leu Arg Arg Leu				
	50		55	60
Ala Leu Arg Asp His Leu Tyr Cys Met Leu Gln Gly Cys Cys Val Phe				
	65		70	75
Cys Phe Asn Phe Trp Cys Phe Tyr Thr Ala Ala His Ile Asn Thr				
	85		90	95
Gly Leu Glu Ser Val Ile Phe Ser Met Ala Val Leu Tyr Asn Ala Ile				
	100		105	110
Asn Ser Phe Ile Phe Phe Gly Gln Arg Pro Pro Ala Arg Phe Trp Thr				
	115		120	125
Ala Ala Ala Leu Gly Leu Ile Gly Ile Ile Thr Leu Phe Trp Asn Asp				
	130		135	140
Leu Leu Ala Ser Gly Trp Ser Ala Ser Leu Leu Thr Gly Ile Gly Leu				
	145		150	155
Ser Ala Leu Gly Thr Tyr Gly Phe Ser Leu Gly Asn Met Ile Ser Met				
	165		170	175
Arg His Gln Arg Asn Gly Met Glu Thr Met Thr Thr Asn Ala Trp Ala				
	180		185	190
Met Leu Tyr Gly Thr Val Val Met Gly Leu Ile Ala Leu Phe Arg Gly				
	195		200	205
Asp Asn Phe Met Pro Glu Trp Thr Val Ser Tyr Met Gly Ala Met Leu				
	210		215	220
Tyr Leu Ala Leu Phe Gly Ser Val Ile Ala Phe Gly Ala Tyr Phe Thr				
	225		230	235
Leu Val Gly Arg Ile Gly Pro Gly Lys Ala Ala Tyr Ser Thr Leu Leu				
	245		250	255
Phe Pro Ala Gly Gly Ala Val Asp Phe Asn Gly Val Thr Arg Leu Pro				
	260		265	270
Phe Gly Ile Leu Thr Gly Phe Ser Gly Cys Phe Leu Ile Ile Gly Gly				
	275		280	285
His Phe				
290				

<210> 10325

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 10325

Lys Lys Asn Thr Met Phe Gln Gln Glu Val Thr Ile Thr Ala Pro Asn
 1 5 10 15
 Gly Leu His Thr Arg Pro Ala Ala Gln Phe Val Lys Glu Ala Lys Gly
 20 25 30
 Phe Thr Ser Glu Ile Thr Val Thr Ser Asn Gly Lys Ser Ala Ser Ala
 35 40 45
 Lys Ser Leu Phe Lys Leu Gln Thr Leu Gly Leu Thr Gln Gly Thr Val
 50 55 60
 Val Thr Ile Ser Ala Glu Gly Glu Asp Glu Gln Lys Ala Val Glu His
 65 70 75 80
 Leu Val Lys Leu Met Ala Glu Leu Glu
 85 90

<210> 10326

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 10326

Gly Arg Val Met Ile Ser Gly Ile Leu Ala Ser Pro Gly Ile Ala Phe
 1 5 10 15
 Gly Lys Ala Leu Leu Leu Lys Glu Asp Glu Ile Val Ile Asp Arg Lys
 20 25 30
 Lys Ile Ser Ala Asp Lys Val Asp Gln Glu Val Glu Arg Phe Leu Ser
 35 40 45
 Gly Arg Ala Lys Ala Ser Ala Gln Leu Glu Ala Ile Lys Thr Lys Ala
 50 55 60
 Gly Glu Thr Phe Gly Glu Lys Glu Ala Ile Phe Glu Gly His Ile
 65 70 75 80
 Met Leu Leu Glu His Glu Glu Leu Glu Gln Glu Ile Ile Ala Leu Ile
 85 90 95
 Lys Asp Lys Gly Met Thr Ala Asp Ala Ala Ala His Glu Val Ile Glu
 100 105 110
 Gly Gln Ala Ser Ala Leu Glu Glu Leu Asp Asp Glu Tyr Leu Lys Glu
 115 120 125
 Arg Ala Ala Asp Val Arg Asp Ile Gly Lys Arg Leu Leu Arg Asn Ile
 130 135 140
 Leu Gly Leu Ala Ile Ile Asp Leu Ser Ala Ile Gln Asp Glu Val Ile
 145 150 155 160
 Leu Val Ala Ala Asp Leu Thr Pro Ser Glu Thr Ala Gln Leu Asn Leu
 165 170 175
 Asn Lys Val Leu Gly Phe Ile Thr Asp Ala Gly Gly Arg Thr Ser His
 180 185 190
 Thr Ser Ile Met Ala Arg Ser Leu Glu Leu Pro Ala Ile Val Gly Tyr
 195 200 205
 Gly Ser Val Thr Ser Gln Val Lys Asn Asn His Tyr Leu Ile Leu Asp
 210 215 220
 Ala Val Lys Asn Val Val Tyr Val Asn Pro Thr Asn Asp Val Ile Asp
 225 230 235 240
 His Cys Ala Pro Val Gln Glu Gln Val Gly Thr Glu Lys Asn Glu Leu
 245 250 255
 Ala Lys Thr Glu Lys Phe Ala Asn His Pro Ala Trp Asn Gly Phe Arg
 260 265 270
 Leu Lys Leu Cys Ala Asn Ile Arg Tyr Gly
 275 280

<210> 10327

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 10327

```

Asn His Asn Pro Thr Leu Leu Val Thr Asp Ile Glu Lys Asn Pro Val
1          5          10          15
Asn Leu Leu Glu Phe Ser His Gln Leu Asn Gln Met Leu Asn Cys Phe
          20          25          30
Leu Leu Val Phe Thr Phe Ser Gly Asp Gly Asn Asn Gly Thr Leu Ser
          35          40          45
Gln Ala Gln Ser Leu Gln Leu Glu Gln Ala Phe Cys Ala Ser Ala Phe
          50          55          60
Ala Val Gly Ser His Ser Asp Phe Arg Ser Glu Ala Phe Arg Phe Phe
65          70          75          80
Asn Lys Leu Ser Ser Arg Ala Gly Val Gln Thr Val Arg Ser Gly Asn
          85          90          95
Gly Asn Phe Leu Leu Glu His Cys Ile Phe Leu Leu Pro Ala Gly Leu
          100          105          110
Glu Asp Leu Cys Ser Arg Asp
          115

```

<210> 10328

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10328

```

Leu Ser Ala Asp Ala Ala Ser Pro Val Val Lys Ile Pro Glu Ile Asn
1          5          10          15
Gln Ile Thr Ile Ala Lys Phe Phe Ser Gly Gln Gly Leu Ser Leu Met
          20          25          30
Gly Ala Ala Leu Ile Tyr Glu Met Val Leu Lys Ala His Asp Ala Met
          35          40          45
Thr Asp Leu Ile Trp Asn Glu Tyr Glu Val Lys Thr Met Asn Gly
          50          55          60

```

<210> 10329

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10329

```

Asp Glu His Met Arg Ala Ser Ala Thr Arg Ser Glu Asp Leu Gly His
1          5          10          15
Pro Glu Asn Lys Ser Glu Leu Ala Trp Asn Glu Asn Lys Lys Trp Lys
          20          25          30
Lys Asn Gln Glu Ser Leu Leu Leu Asn Gly Val Glu Ile Pro Ile Val
          35          40          45
Ser Leu Asp Tyr Glu Ile Glu Ile Asn Gln Glu Ile Gly Asn Tyr Asn
          50          55          60
Ala Phe Lys Asp Thr Cys Tyr Leu Glu Asn Tyr Arg
65          70          75

```

<210> 10330

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 10330

```

Gly Gly Thr Leu Thr Gly Leu Leu Phe Glu Gln Ile Glu Glu Arg Lys
1          5          10          15
Met Ser Tyr Leu Glu Tyr Ile Asn Glu Val Lys Val Ser Gly Ile Val

```

20 25 30
 Ile Ser Ala Val Glu Lys Lys Met Thr Asp Gln Ser Ile Gly Leu Leu
 35 40 45
 Ile Lys Leu Lys Asn Arg Met Lys Thr Glu Val Asp Gly Glu Ile Thr
 50 55 60
 Glu Arg Glu Phe Ser Val Gln Ile Lys Val Ser Pro Glu Met Tyr Ser
 65 70 75 80
 Thr Cys Phe Thr Gly Ile Asn Gln Gly Asp Glu Leu Met Val Ser Gly
 85 90 95
 Tyr Ile Val Val Asp Thr Ile Met Ile Glu Gly Arg Glu His Pro Leu
 100 105 110
 Asp Tyr Met Arg Val Val Ala Thr Ser Lys Leu Ala His Ile Pro Lys
 115 120 125
 Pro Leu Lys Gly Phe Gly Gln Ser Ser Phe Asn Gln Ile
 130 135 140

<210> 10331
 <211> 66
 <212> PRT
 <213> Enterobacter cloacae

<400> 10331
 Ile Asn Tyr Leu Arg Tyr Phe Ile Phe Ile Tyr Ile Glu Tyr Arg Lys
 1 5 10 15
 Lys Thr Lys Leu Ile Thr Thr Tyr Cys Ser Ser Pro Lys Phe Leu Phe
 20 25 30
 His Gly Asp Ser Lys Arg Arg Asn Pro Met Lys Gly Phe Leu Pro Phe
 35 40 45
 Arg Val Gly Leu Met Ser Asp Leu Ile Lys Ala Thr Leu Ser Lys Thr
 50 55 60
 Phe
 65

<210> 10332
 <211> 123
 <212> PRT
 <213> Enterobacter cloacae

<400> 10332
 Ser Ser Ala Ala Leu Glu Glu Gln Ile Met Leu Asp Asp Cys Asn Asp
 1 5 10 15
 Asp Met Gly Trp Asp Ile Phe Phe Asp Gln Asp Tyr Leu Met Ser Glu
 20 25 30
 Lys Lys Leu Ala Val Lys Trp Thr Asp Arg Glu Ile Met Asp Val Tyr
 35 40 45
 Ile Lys Ala Phe Lys Ser Thr Leu Glu Leu Phe Asp Glu Leu Val Ser
 50 55 60
 Cys Asp Leu Leu Thr Lys Arg Asn Ala Phe Gly Lys Leu Glu Ile Asn
 65 70 75 80
 Pro Ile Phe Glu Asn His Phe Glu Trp Ile Met Ser Glu Ala Phe Glu
 85 90 95
 Ile Val Gly Asn His Leu Gly Tyr Asn Val Pro Gln Ile Arg Lys Leu
 100 105 110
 Met Ala Thr Ile Cys Gln Met Asn Leu Lys
 115 120

<210> 10333
 <211> 86
 <212> PRT
 <213> Enterobacter cloacae

<400> 10333

Arg Phe Leu Ser Met Val Ala Glu Thr Gly Trp Ile Asn Ala Ala Arg
 1 5 10 15
 Cys Leu Thr Trp Arg Asn Gln Phe Trp Cys Glu Val Asn Val Gly Ile
 20 25 30
 Glu Thr Ile Ile Gly Leu Ala Ala Leu Val Ile Ser Ala Ile Ala Gly
 35 40 45
 Ala Phe Gly Leu Gly His Ile Arg Gly Thr Ser Lys Ala Gln Ala Lys
 50 55 60
 Ala Asp Gln Gln Arg Thr Glu Asp Asn Ala Ala Thr Val Ala Ala
 65 70 75 80
 Ala Glu Arg Arg Val
 85

<210> 10334

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 10334

Val Asn Ser Lys Gly Lys Ala Phe Asp Val Lys Leu Glu Ala Tyr Ala
 1 5 10 15
 Leu Ser Glu Asn Asp Gly Lys Asn Gly Ile Arg Gly Thr Leu Ile Ser
 20 25 30
 Arg Asn Gly His Ala Ile Ala Gly Ala Ala Phe Ala Gly Gly Leu Ser
 35 40 45
 Ser Leu Ala Gly Ser Leu Ser Pro Ser Lys Val Ser Ser Phe Tyr Ile
 50 55 60
 Asp Pro Tyr Ser Gln Ala Gln Tyr Gln Ser Pro Asn Phe Gly Ala Leu
 65 70 75 80
 Gly Ala Leu Ala Gly Val Gly Ala Ala Gln Gly Gly Leu Asn Arg Leu
 85 90 95
 Val Asp Tyr Tyr Thr Ala Ile Ala Glu Gln Gln Trp Pro Ile Val Glu
 100 105 110
 Ile Ser Pro Gly Arg Ala Ile Thr Phe Val Val Gln Thr Gly Thr Thr
 115 120 125
 Ile Pro Thr Asn Leu Thr Ser Arg
 130 135

<210> 10335

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 10335

Met Asp Ser Leu Glu Lys Lys Glu Ser Pro Glu Ser Ala Gly Pro Glu
 1 5 10 15
 Ile Thr Lys Lys Met Val Arg Glu Arg Thr Thr Lys Lys Ile Thr Phe
 20 25 30
 Glu Ile Asp Ile Glu Lys Ile Leu Lys Tyr Leu Phe Phe Phe Ala Phe
 35 40 45
 Ala Val Leu Val Ile Ile Tyr Gly Tyr Lys Gly Phe Met Asn Val Tyr
 50 55 60
 Asp Tyr Phe Asn Lys Gln Ser Gln Pro Ser Tyr Lys Ile Ala Val Leu
 65 70 75 80
 Asp Met Pro Glu Leu Arg Lys Glu Phe Phe Lys His His Gly Gly Arg
 85 90 95
 Thr Ala Asp Asn Asp Arg Ser Gln Phe Glu Glu Tyr Phe Arg Thr Leu
 100 105 110
 Met Lys Ile Tyr Arg Asp Arg Gly Tyr Leu Ile Ile Asp Ala Thr Leu
 115 120 125

Ala Val Thr Val Pro Asp Ser Val Glu Ile Val Thr Tyr Met Glu Leu
 130 135 140
 Glu Asp Ser Ser Glu Ala Val Gln Ser Ser Ser Tyr Asn Ala Lys Lys
 145 150 155 160

<210> 10336

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 10336

Thr Phe Thr Asn Phe Phe Arg Lys Asp Phe Leu Phe Trp Gln Ile Leu
 1 5 10 15
 His Gly His Tyr Ser Ala Leu Cys Asn Leu Ile Gln Ser Val Thr Lys
 20 25 30
 Pro Glu Glu Glu Ile Val Ile Phe Ser Thr Gly Asn Leu Phe Asp Tyr
 35 40 45
 Gly Pro Glu Pro Ile Glu Leu Met Lys Ala Ile Asn Ser Gly Phe Phe
 50 55 60
 Asp Gly Arg Phe Val Arg His Phe Ser Ala Ala Gly Ala Gly Glu Glu
 65 70 75 80
 Met Leu Lys Lys Leu Leu Pro Leu Asn Lys Asp Arg Arg Thr Phe Tyr
 85 90 95
 Pro Ser Thr Tyr Leu Asn Glu Arg Trp Cys Val Met Gly Gly Lys Trp
 100 105 110
 His Lys Ala Val Asn Arg Tyr Tyr Leu Glu Glu Glu Val Lys Lys Leu
 115 120 125
 Leu Asn Thr Gln Leu Gly Thr Met Met Gln Ile Leu Leu Lys Gly Asp
 130 135 140
 Ile Lys Ile Gly Val Cys Pro Ser Asp Tyr Ala Pro Ile Arg Thr Ser
 145 150 155 160
 Phe Thr Asp Thr Tyr Asn Ala Leu Gln Ala Phe Asn Tyr Ala Asn Val
 165 170 175
 Asn Ile Phe Gln Ser Gln Phe Leu Phe Gly Met Asp His Ala Val Ile
 180 185 190
 Pro Met Met Ile Asn Asp Val Asn Leu Met Val Leu Gly Arg Asn Pro
 195 200 205
 Val Asn Ser Ile Arg Lys Ala His Gly Arg Thr Gln Asn Asn Leu Pro
 210 215 220
 Val Leu Ile Gly Asn Cys Leu His Ile Asn Thr Gly Ser Leu Tyr Met
 225 230 235 240
 Ser Lys Leu Glu Asp Gln Val Ile Val Ala Pro Gly Ile Pro Gln Thr
 245 250 255
 Asp Ser Pro Ala Leu Thr Leu Val Glu Ile Ile Met Lys Asn Asn Pro
 260 265 270
 Val Leu Leu Cys His Gln Leu Ile Gln Thr Thr Asn Lys Phe Tyr Ser
 275 280 285
 Leu Lys Thr Tyr Pro Leu Glu Leu Asp Ser Ile Glu Asn Asn Ile Glu
 290 295 300
 Val Thr Arg
 305

<210> 10337

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 10337

Thr Arg Val Arg Asn Pro Leu Met Asp Ile Arg Lys Ile Lys Lys Leu

```

1           5           10           15
Ile Glu Leu Val Glu Glu Ser Gly Ile Ser Glu Leu Glu Ile Ser Glu
      20           25           30
Gly Glu Glu Ser Val Arg Ile Ser Arg Ala Ala Pro Ala Ala Ser Phe
      35           40           45
Pro Val Met Gln Gln Ala Tyr Ala Ala Pro Val Gln Gln Pro Ala Leu
      50           55           60
Ser Ala Ala Val Ala Pro Ala Ala Ala Glu Ala Ala Pro Ala Ala Ala
65           70           75           80
Thr Glu Asn His Gly His Ile Val Ser Ser Pro Trp Leu Val Leu Ser
      85           90           95
Thr Ala Pro Arg Ser Arg Thr Arg Lys Ala Ser Thr Lys Cys Val Lys
      100          105          110
Lys Ser Thr
      115

```

<210> 10338

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10338

```

Gly Gly Gly Lys Gly Glu Gly Glu Val Gly Gly Thr Arg Glu Glu Arg
1           5           10           15
Arg Lys Arg Gly Leu Gly Lys Gly Arg Ala Met Glu Gly Gly Glu Gly
      20           25           30
Gly Arg Glu Gly Lys Val Glu Gly Gly Ala Glu Val Gly Gly Gly Val
      35           40           45
Gly Gly Gly Glu Gly Gly Gly Gly Gly Gly Glu Arg
      50           55           60

```

<210> 10339

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 10339

```

Lys Arg Arg Lys Arg Lys Lys Lys Asp Leu Ser Ala Lys Gly Gln
1           5           10           15
Ala Glu Ala Ser Lys Arg Thr Ala Lys Ala Thr Thr Asn Pro Leu Thr
      20           25           30
Lys Glu Asn Ser Gly Asn Lys Glu Thr Phe Thr Lys Ala Pro Glu Arg
      35           40           45
Glu Glu Ala Leu Gly Gln Lys Thr Val Glu Ile Gln Leu Gln Gln Gly
      50           55           60
Leu Glu Glu Lys Glu Lys Ala Ser Ala Phe Trp Pro Thr Lys Glu
65           70           75           80

```

<210> 10340

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 10340

```

Thr Ala Leu Ala Ser Ser Pro Asp Leu Arg Ile Met Arg Gly Leu Val
1           5           10           15
Val Ile Asp Gly Gly Phe Asn Leu Asn Gln Ser Ser Ser Leu Cys Tyr
      20           25           30
Ser Thr Met Leu Pro Ile Gly Glu Leu Arg Lys Asn Gly Tyr Thr Leu
      35           40           45
Pro Ser Ile Val Met Gly Leu Arg Ser Asn His Phe Arg Leu

```

50

55

60

<210> 10341

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10341

Ile	Leu	Thr	Arg	Val	Thr	Glu	Ser	Val	Arg	Thr	Gly	Ser	Gly	Leu	Val
1				5					10					15	
Leu	Ser	Thr	Leu	Ile	Lys	Ala	Phe	Phe	Ile	Ala	Leu	Phe	Pro	Leu	Val
			20					25				30			
Leu	Lys	Lys	Leu	Pro	Thr	Arg	Pro	Asp	Gly	Gly	Val	Gly	Gln	Lys	Ile
		35					40				45				
Met	Pro	Val	Pro	Tyr	Ser	Ser	Ser	Gln	His	Ala	Tyr	Ala	Gly	Thr	Leu
	50					55					60				
Ser	Gly	Gln	His	Glu	His										
65					70										

<210> 10342

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 10342

Pro	Thr	Pro	Pro	Ser	Gly	Arg	Val	Gly	Asn	Phe	Phe	Arg	Thr	Arg	Gly
1				5				10						15	
Asn	Arg	Ala	Met	Lys	Lys	Ala	Phe	Ile	Asn	Val	Asp	Lys	Thr	Asn	Pro
			20					25				30			
Leu	Pro	Val	Leu	Thr	Asp	Ser	Val	Thr	Arg	Val	Ser	Ile	Gln	Cys	Thr
		35				40					45				
Ala	Lys	Asp	Glu	Asn	Gly	Ala	Gly	Ile	Glu	Val	Asn	Ile	Leu	Asp	Leu
	50					55					60				
Ile	Gln	Asp	His	Asp	Thr	Asp	Glu	Val	Lys	Val	Gln	Phe	Gly	Ser	Ser
65				70				75						80	
Pro	Val	Gln	Ala	Leu	Ala	Met	Leu	Arg	Arg	Val	Met	Thr	Ala	Leu	Glu
			85					90						95	
Lys	Gln	Ala	Asn	Ala	Glu	Leu	Gln	Gln	Asn	Ser	Cys	Ser	Arg	Met	Gln
			100					105						110	

<210> 10343

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 10343

Asn	Gly	Glu	Lys	Pro	Lys	Arg	Arg	Thr	Leu	Val	Tyr	Ala	Thr	Gly	Asn
1				5				10						15	
Arg	Asn	Arg	Phe	Arg	Leu	Gln	Arg	Asn	Arg	Val	His	Lys	Gln	Asn	Pro
			20					25				30			
Ala	Gly	Lys	Ala	Pro	Ser	Met	Ser	Ser	Val	Leu	Asn	Lys	Lys	Thr	Val
		35				40					45				
Thr	Val	Ile	Ala	Asp	Thr	Ala	Ile	Pro	Ile	Phe	Glu	Arg	Ile	Ala	Glu
	50					55					60				
Glu	Ala	Lys	Leu	Lys	Glu	Gly	Glu	Ser	Val	Ser	Thr	Asp	Thr	Tyr	Thr
65				70				75						80	
Leu	Val	Leu	Thr	Asn	Asp	Glu	Met	Asn	Asp	Ile	Ile	Asn	Ala	His	Ala
			85					90						95	
Asp	Leu	Lys	Glu	Tyr	Leu	Arg	Lys	His	Ala	Glu	Lys	Met	Asn	Lys	Gly

Gln Ala 100 105 110
115

<210> 10344
<211> 113
<212> PRT
<213> Enterobacter cloacae

<400> 10344
Thr Tyr Gly Glu Asp Met Val Ile Thr Tyr Ser Leu Ser Glu Thr Phe
1 5 10 15
Asn Met Phe Leu Arg Glu Ile Ile Ala Ser Gly Leu Ala Val Phe Cys
20 25 30
Ala Trp Cys Val Leu Cys Leu Phe Ser Asp Gln Glu Arg Gly Lys Glu
35 40 45
Val Pro Val Ser Met Lys Lys Ile Thr Ser Lys Ser Ala Phe Ser Tyr
50 55 60
Phe Ile Ser Ser Gln Ile Ala Ala Phe Ile Ile Ser Leu Leu Gly Ser
65 70 75 80
Ile Leu Ser Thr Lys Trp Asp Asn Ile Val Trp Asn Asp Glu Ile Arg
85 90 95
Gln Ser Asp Leu His Val Phe Thr Thr Thr Ser Gln Ile Arg Ser Asn
100 105 110
Ala

<210> 10345
<211> 64
<212> PRT
<213> Enterobacter cloacae

<400> 10345
Ser Pro Asn Val Cys Leu Ser Ile Arg Leu Val Lys Tyr Gly Ser Ser
1 5 10 15
Leu Ile Lys Ile Cys Ser Leu Ile Val Phe Phe Ala Gly Ser Pro Arg
20 25 30
Leu Phe Phe Val Ser Ser Pro Glu Ser Ser Lys Tyr Phe Ser Ile Phe
35 40 45
Leu Glu Asn Arg Glu Gln Asp Gly Val Leu Leu Phe Glu Gln Ser
50 55 60

<210> 10346
<211> 164
<212> PRT
<213> Enterobacter cloacae

<220>
<221> UNSURE
<222> (10)

<400> 10346
Met His Ser Leu Met Thr Val Ala Ile Xaa Ile Gln Asn Gln Gln Gly
1 5 10 15
Phe Phe Asp Leu Phe Lys Ser Gln Glu Arg Lys Ser Lys Glu Val Ile
20 25 30
Ser Ile Leu Phe Glu Tyr Val Arg Glu Asn Ser Val Trp Val Glu His
35 40 45
Tyr Glu Ser Gln Ile Ser Ile Thr Gln Asp Asp Arg Tyr Ser Leu Val
50 55 60
His Phe Asn Gln Tyr Gln Glu Pro Asn Trp Ser Phe Ile Ser Lys Glu

```

65          70          75          80
Lys Leu Glu Glu Thr Tyr Pro Glu Phe Asp Phe His Val Ser Arg Lys
      85          90          95
Ser Leu Glu Asn Trp Ser Asn Ala Arg Leu Ser Thr Gln Thr Ile Lys
      100        105        110
Lys Leu Leu Lys Glu Lys Asn Trp Thr Met Lys Glu Val Ala Ala Arg
      115        120        125
Trp Asn Arg Ser Glu Ser Trp Met Ser Lys Val Val Asn Asp Glu Glu
      130        135        140
Arg Glu Leu Tyr Trp Glu Asp Ala Phe Lys Gly Leu Pro Ser Lys Ile
145          150          155          160
His Glu Lys

```

```

<210> 10347
<211> 98
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 10347
Gly Ser Ile Met Ser Lys Glu Leu Val Arg Pro Ile Met Glu Lys Pro
1          5          10          15
Glu Arg Ala Arg Lys Glu Ser Ser Leu Thr Asn Ile Ala Ala Lys Lys
      20          25          30
Lys Asn Thr Thr Gly Glu Thr Pro Lys Thr Ile Arg Met Thr Pro Ala
      35          40          45
Glu Lys Met Leu Ala Gln Glu Leu Val Glu Gln Ile Gln Ala Leu Thr
      50          55          60
His Lys Asn Ile Thr Val Ser Thr Leu Leu Arg Ala Gly Leu Tyr Leu
65          70          75          80
Ala Gln Ser Ala Gly Pro Glu Lys Val Leu Lys Ala Ile Lys Glu Asn
      85          90          95
Ile

```

```

<210> 10348
<211> 97
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 10348
Lys Met Asp Lys Gln Leu Tyr His Ile Arg Trp Lys Leu His His Thr
1          5          10          15
Leu Ala Glu Leu Asn Tyr Ser Leu Glu Cys Phe Gly Asp Tyr Leu Ala
      20          25          30
Lys Gln Asn Asp Tyr Pro Tyr Asp Ile Asp Gly Phe Glu Ala Ile Tyr
      35          40          45
Leu Tyr Leu Gln Arg Lys Tyr Ser Trp Pro Leu Asp Lys Ser Arg Gly
      50          55          60
Met Ser Leu Ser Asp Ile Arg Leu Ala Leu Ser Val Glu Met Lys Gly
65          70          75          80
Trp Thr Leu Pro Arg Asp Ala Ile Phe Glu Glu Phe Pro Gly Val Tyr
      85          90          95

```

```

<210> 10349
<211> 63
<212> PRT
<213> Enterobacter cloacae

```

<220>
 <221>UNSURE
 <222>(27)

<400> 10349

```
Ser Thr Asn Asn Trp Glu Lys Glu Tyr Leu Pro Pro Pro Lys Gly Leu
1          5          10          15
Glu Phe Met Glu Ile Pro Thr Asp Pro Phe Xaa Cys Val Leu Leu Gly
          20          25          30
Trp Gly Gly Gly Ile Lys Gly Gly Pro Phe Pro Gly Gly Glu Ser Arg
          35          40          45
Thr Asn Tyr Pro Ala Gln Gly Gly Pro Thr Phe Pro Trp Val Val
          50          55          60
```

<210> 10350

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10350

```
Ile Gln Lys Val Thr Phe Ile Met Pro Ser Leu Leu Gly Ile Ser Asn
1          5          10          15
Lys Lys Ser Leu Pro Asn Leu Leu Asp Ile Ser Asn Leu His Leu Ile
          20          25          30
Asp Asn His Met His Ser Asp Tyr Ser Val Asp Val Pro Phe Gly Gly
          35          40          45
Pro Ala Leu Arg Glu Gln Lys Lys Arg Pro Ile Gly Arg Phe Ala Leu
          50          55          60
```

65

<210> 10351

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10351

```
Lys Ser Gly Tyr Pro Pro Phe Pro Gln Ala Gly Asp Asp Tyr Met Gln
1          5          10          15
Asp Asn Glu Leu Ala Lys Val Arg Asp Phe Trp Leu Thr Val Lys Leu
          20          25          30
Met Ala Glu Asn Ser Leu Lys Glu Ile Ser Leu Leu Asn Thr His Gln
          35          40          45
Glu Ile Leu Gln Lys Ser His Arg Glu Ala Met Ser Asn Leu Ser Ser
          50          55          60
Leu Leu Lys Glu Gln Val
65          70
```

<210> 10352

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 10352

```
Lys Gly Ala Gly Pro Gly Met Ser Arg Ile Ile Ala Arg Thr Gly Met
1          5          10          15
Ile Arg Ser Ser Ser Ile Leu Thr His Arg Phe Ile Arg Ala Ala Arg
          20          25          30
Ser Arg Arg Ala Ser Val Arg Pro Arg Ala Gln Gly Gln Trp His Arg
          35          40          45
Arg Arg Ser Ile Arg Pro Val Leu Met Ser Cys Lys Lys Ser Ser Val
```

50		55		60											
Ala	Gln	Ala	Asp	Trp	Thr	Gly	Ala	Arg	Gly	Leu	Met	Glu	Ala	Gly	Lys
65					70					75					80
Arg	Gln	Leu	Glu	Asn	Ala	Leu	Arg	Ala	Arg	Asp	Val	Tyr	Lys	Asn	Glu
			85						90					95	
Tyr	Thr	Leu	Ser	Lys	Arg	Ser	Ile	Asn	Asp	Leu	Leu	Ser	Val	Glu	Gln
			100					105					110		
Asp	Val	Trp	Ser	Ala	Thr	Ser	Ala	Lys	Ile	Met	Ala	Glu	Tyr	Asp	Gly
		115					120					125			
Trp	Ser	Ala	Ala	Ile	Asn	Tyr	Ala	Ser	Ala	Val	Asp	Asn	Leu	Met	Pro
	130					135					140				

<210> 10353

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10353

Leu	Thr	Glu	Gly	Ser	Arg	Ser	Arg	Ala	Lys	Arg	Ile	Leu	Ser	Phe	Ile
1				5					10					15	
Val	Ile	Ala	Ala	Thr	Gly	Asp	Ile	Pro	Ala	Trp	Pro	Leu	Phe	Ala	Leu
			20					25				30			
Ala	Ala	Val	Thr	Thr	Asn	Glu	Ile	Lys	Val	Arg	Glu	Ala	Asp	Asn	Leu
		35				40					45				
Ser	Asn	Leu	Leu	Leu	His	Phe	Ile	Phe	Ile	Ile	Ser	Pro	Asp	Ser	Arg
	50					55					60				

65

<210> 10354

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10354

Ile	Ser	Phe	Ala	Val	Arg	His	Leu	Arg	Asn	Asp	Ile	Gly	Phe	Thr	Cys
1				5					10					15	
Ser	Gly	Pro	Val	Phe	Thr	Asn	Arg	Trp	Met	Ile	His	Phe	Ser	Phe	Ile
			20					25				30			
Tyr	Leu	Ala	Arg	Ser	Arg	Tyr	Phe	Met	Phe	Val	Ile	Arg	Phe	Gln	Asn
		35				40					45				
Val	Thr	Phe	Val	Ile	Val	Lys	Ser	Ile	Leu	Leu	Ile	Asn	Ile	Ala	Leu
	50					55				60					
Ser	Tyr	Lys	Phe	Ile	Asn	Lys	Ser	Trp	Ile	Val	His	Tyr	Tyr	Cys	Leu
65				70					75					80	
Asn	Gly	Lys	Ser	Val	Thr	Ala	Ile	Phe	Asp	Thr	Asn	Gly	Cys	Val	Arg
			85					90					95		

Asn Asp

<210> 10355

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 10355

Ala	Phe	Asn	Asn	Arg	Ser	Glu	Tyr	Ile	Pro	Lys	Arg	Ser	Val	Leu	Ile
1			5						10					15	
Val	Pro	Asp	Ala	Pro	Ile	Ser	Ile	Glu	Asp	Gly	Ser	Asn	Ala	Phe	Pro
		20						25				30			
Val	Gln	Thr	Val	Ile	Met	Asn	Asp	Pro	Thr	Leu	Ile	Asp	Lys	Phe	Val

35 40 45
 Gly Glu Gly Asn Ile Asn Glu Asn Ala Phe Asp Tyr His Lys Ser
 50 55 60
 Asn Val Leu Glu Pro Asn Tyr Lys His Glu Ile Ser Arg Thr Ser Gln
 65 70 75 80
 Ile Asp Lys Ala Glu Met Asn His Pro Ser Val Arg Glu Asn Trp Ala
 85 90 95
 Arg Ala Gly Glu Pro Tyr Ile Val Pro Gln Met Ser Asp Ser Glu Arg
 100 105 110
 Asn Leu Lys Ile Lys Arg Phe Gln Lys Pro Thr Ser Gly Ala Asn His
 115 120 125
 Gly His
 130

<210> 10356

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 10356

Lys Leu Asn Asp Ser Arg Asn Leu Gln Val Glu Leu Ile Met Asp Ile
 1 5 10 15
 Lys Lys Ala Trp Glu Asn Lys Thr Val Arg Leu Ser Val Ile Gly Ala
 20 25 30
 Leu Leu Val Val Ile Val Tyr Ile Ile Ser Gln Ser Ile Phe Ser Thr
 35 40 45
 Pro Val Lys Lys Glu Lys Lys Thr Gln Lys Lys Asp Met Gln Thr Asn
 50 55 60
 Leu Leu Leu Asp Asp Ser Gln Met Asn Lys Leu Ser Asn Glu Glu Ser
 65 70 75 80
 Gln Lys Val Tyr Lys Glu Met Val Lys Gln Asn Arg Leu Asp Gln Asn
 85 90 95
 Ala Ala Lys Glu Asp Arg Glu Lys Ala Glu Lys Ala Gln Gln Glu Thr
 100 105 110
 Lys Ala Gln Val Ala Ser Leu Thr Ser Gln Leu Gln Gln Leu Ser Gln
 115 120 125
 Gln Ile Asn Asp Met Gln Thr Asn Arg Asn Gly Asn Arg Asn Leu Asp
 130 135 140
 Ala Gly Ser Ser Arg Lys Thr Ile Asn Glu Gln Ala Pro Ala Ala Pro
 145 150 155 160
 Tyr Gln Leu Asn Ala Asn Ala Pro Ile Asn Gly Val Asn Pro Asn Tyr
 165 170 175
 Ala Ser Ile Thr Pro Thr Arg Asn Ser Pro Met Arg Thr Ile Thr Gln
 180 185 190
 Ser Ser Ile Lys Thr Asn Gly Thr Asp Gly Val Ile Gln Val Met Pro
 195 200 205
 Val Ser Glu Asn Arg Ile Lys Glu Gly Arg Glu Val Ile Ala Gly Leu
 210 215 220
 His Gln Gly Pro Glu Asp Thr His
 225 230

<210> 10357

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10357

Cys Pro Lys Ala Leu Lys Gly Ile Glu Asn Pro Phe Arg Arg Ala Phe
 1 5 10 15
 Glu Leu Gln Arg Arg Ser Ser Leu Lys Cys Pro Ser Cys Pro Thr Ile
 20 25 30

Cys Gln Gln Asn Val Lys Thr Ser Ile Gln Val Ala Gly Ile Tyr Val
 35 40 45
 Glu Cys Glu Lys Pro Gln Thr Lys Ile Lys Lys Thr Leu Thr Val Ser
 50 55 60
 Phe Gln Gln Arg Asn Leu Cys Tyr Ser Pro
 65 70 75

<210> 10358

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 10358

His Phe Phe Ala Arg Asn Trp Glu Lys Cys Gln Pro Asn Leu Thr Asp
 1 5 10 15
 Pro Asp Ala Tyr Glu Arg Gln Leu Gln Gln Lys Gly Lys Gly Leu Ala
 20 25 30
 Leu Arg Phe Val Glu Pro Trp Leu Leu Ala Phe Val Asn Pro Asp Ala
 35 40 45
 Lys Gln Gly Arg Cys Gln Pro Val Met Val Cys Tyr Ala Leu Leu Gly
 50 55 60
 Lys Thr Arg Gly Lys Val Ser Thr Ala Thr Ala Ser Glu Asn Phe Arg
 65 70 75 80
 Tyr Thr Asn Ser
 85

<210> 10359

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 10359

Arg Gly Gly Val Lys His Thr Pro Phe Ala Thr Ile Leu Lys Pro Leu
 1 5 10 15
 Ser Asp Arg Cys Ser Ser Leu Pro Gly Ser Trp Arg Ser Asp Leu Val
 20 25 30
 Val Lys Thr Tyr His Pro Pro Ala Gln Pro Val Gly Ile Phe Gly Cys
 35 40 45
 Asn Arg Phe Lys Leu Gln Phe Leu Pro Ser Val Met Gly Met Ile Arg
 50 55 60
 Gly Gln Asn Leu Asp Asn Tyr Ser Asn Asn Pro
 65 70 75

<210> 10360

<211> 90

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (50)

<220>

<221> UNSURE

<222> (66)

<220>

<221> UNSURE

<222> (72)

<220>

<221>UNSURE
<222>(73)

<220>
<221>UNSURE
<222>(88)

<220>
<221>UNSURE
<222>(89)

<400> 10360

```

Arg Asn Gln Leu Pro Ala Thr Ala Thr Leu Pro Phe Cys Ser Ser Ile
1          5          10          15
Pro Gly Gly Glu Val Leu Phe Ser Ser Ala Gln Gly Ala Ala Leu Arg
          20          25          30
Pro Ala Val Asn Ser Ala Asp Phe Ser Glu His Ser Arg Ala Arg Asp
          35          40          45
Val Xaa Leu Trp Thr Val Glu Gly Ser Ala Gly Thr Ile Asp Thr Gly
          50          55          60
Val Xaa Asn Glu Tyr Gly Thr Xaa Xaa Ile Ile Ala Leu Phe Trp Val
65          70          75          80
Arg Pro Ile Phe Leu Gly Lys Xaa Xaa
          85          90

```

<210> 10361
<211> 80
<212> PRT
<213> Enterobacter cloacae

<400> 10361

```

Gly Gly Gly Val Tyr His Lys Leu Trp Gln Lys Met Gln Trp Leu Phe
1          5          10          15
Phe Ile Leu Val Ala Pro Arg Leu Leu Val Asp Ala Asp Tyr Glu Gly
          20          25          30
Thr Leu Ser Asn Met Leu Ala Ala Ile Lys Cys Leu Ser Pro Val Arg
          35          40          45
His Ser Leu Ile Val Val Thr Lys Asn Arg Ala Leu Phe Phe Val Trp
          50          55          60
Val Asn Asn Cys Phe Ser Asn Phe Leu Asn Ile Asp Ala Arg Lys
65          70          75          80

```

<210> 10362
<211> 82
<212> PRT
<213> Enterobacter cloacae

<400> 10362

```

Ala Ser Ala Ala Thr Ser Gly Ser Leu Leu Pro Val Pro Val Pro Gly
1          5          10          15
Tyr Ser Arg Gln Trp Gln Ile Gln Val Cys Ser Phe Ile Phe Leu Ile
          20          25          30
Ile Lys Gln Arg Met Ser Ala Thr Met Lys Val Lys Ala Ala Glu Tyr
          35          40          45
Thr Thr Ser Tyr Gly Lys Lys Cys Ser Gly Cys Phe Leu Tyr Leu Ser
          50          55          60
Arg Arg Asp Tyr Trp Ser Thr Arg Ile Met Lys Val Leu Cys Pro Ile
65          70          75          80
Cys

```

<210> 10363
 <211> 106
 <212> PRT
 <213> Enterobacter cloacae

<400> 10363
 Gln Ser Glu Ile Glu Gly Met His Arg Thr Lys Phe Glu Arg Leu Lys
 1 5 10 15
 Asp Asp Leu Ile Gly Glu Ala Val Leu Ser Ile Leu Lys Glu Asn Gly
 20 25 30
 Pro Ile Thr Phe Val Ser Leu Ala Asn Arg Leu Arg Ala Met Ala Asn
 35 40 45
 Val Glu Ser Asn Asp Glu Arg Lys Asn Ala Leu Ile Ala Ala Glu Asp
 50 55 60
 Glu Val Arg Gln Arg Val Thr Gly Val Ser His Asp Arg Gly Arg Val
 65 70 75 80
 Met Gly Asn Tyr Asp Met Gly Arg Met Arg Ser Leu Phe Thr His Asn
 85 90 95
 Thr Leu Leu Thr Pro Asp Lys Lys His
 100 105

<210> 10364
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 10364
 Arg Asp Lys Phe Phe Lys Phe Phe Phe Ala Ile Asp Ala Phe Arg Asn
 1 5 10 15
 Ala Phe Pro Ser Arg His Val Ala Val Tyr Leu Tyr Arg Phe Asn Asn
 20 25 30
 Ala Ile Val Ile Val Val Ser Asn Lys Val Leu Asn Tyr Ile Ala Val
 35 40 45
 Lys Leu Gln Ser Ile Asn Ile Asn Leu Ser Asp Gly
 50 55 60

<210> 10365
 <211> 82
 <212> PRT
 <213> Enterobacter cloacae

<400> 10365
 Ile Thr Gly Ser Ser Thr Tyr Asn Glu Met Asn Leu Ala His Leu Lys
 1 5 10 15
 Lys Gln Ile His Tyr Asn Arg Val Met Tyr Ile Ala Val Leu His Leu
 20 25 30
 Arg His Leu Pro His Arg Leu Ile Phe Ile Tyr Asp His Lys Asp
 35 40 45
 Ile Phe Tyr Val Pro Gln Lys Val Ile Thr His Glu Tyr Ile Asn His
 50 55 60
 Asp His Cys Val Tyr Ser Phe Ile Leu Trp Gly Ser Phe Cys Ser Val
 65 70 75 80
 Gln

<210> 10366
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<400> 10366

Thr Ser Leu Phe Ile Phe Val Arg Leu Ser Phe Asp Ser Cys Gln Thr
 1 5 10 15
 Leu Ile Trp Lys Thr Lys Lys Ser Phe Leu Leu Ile Arg Phe Thr Glu
 20 25 30
 Ile Leu Leu Arg Tyr Phe Gly Tyr Tyr Leu Asn Asn Tyr Gln Lys Arg
 35 40 45
 Gly Ala Ala Met Arg Lys Ser Tyr Thr Phe Gly Ile Pro Phe Gly Leu
 50 55 60
 Gln Arg Glu Ser Gly Leu Phe Leu Asp Ile Thr Glu Val Ser Arg Gly
 65 70 75 80
 Ile Asp Cys Asn Cys Ile Cys Pro Ala Cys Lys Thr Asp Leu Leu Ala
 85 90 95
 Lys Gln Gly Glu Val Lys Leu Trp His Phe Ser His Ser Thr Ala Val
 100 105 110
 Ala Gly Asp Cys Asp Gly Leu Met Glu Ala Ile Arg Gly Lys Ile Ile
 115 120 125
 Glu Val Ile Asn Glu His Gln Val Leu Gly Phe Pro Asn Leu Leu Ala
 130 135 140
 Gly Asp Asp Gly Gly Pro Val Ser Leu Asn Glu Val Ser Gly Ser Gly
 145 150 155 160
 Ser Met Phe Gly Gly Thr Ala Asp Leu Phe Val Ser Val Lys Pro Leu
 165 170 175
 Pro Pro Val Ala Ile Thr Asn Asp
 180 185

<210> 10367

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10367

Cys Pro Thr His Gln Ile Ala Ala Thr Tyr Glu Thr Val Pro Arg Gln
 1 5 10 15
 Ile Met Ala Gln Ser Gln Ile Tyr Gln Cys Ser Arg Lys Met Lys Leu
 20 25 30
 Gly Tyr Phe Pro Arg Phe Ser Ile Tyr Trp Gly Thr Ser Gln Asp Tyr
 35 40 45
 Glu Ser Cys Phe Thr Val Cys Val Val Arg Ser Leu
 50 55 60

<210> 10368

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 10368

Asn Tyr Phe Ser Asp Leu Arg Gly Leu Tyr Tyr Leu Pro Ser Ala Lys
 1 5 10 15
 Val Ser His Asn Phe Thr Ile Ser Thr Tyr Gln Asn Phe Leu Gly Leu
 20 25 30
 Leu Phe Cys Tyr Val Lys Cys His Ile Leu Lys Asn Met Ala Tyr Met
 35 40 45
 Leu Ile His Asn Ala Ile Lys Asp Val Leu Ala Leu Ser Leu Ser Ser
 50 55 60
 Asn Glu Ser Cys Thr Pro Gln Gln Pro Gln Met Met Thr Asp Gln Arg
 65 70 75 80
 Leu

<210> 10369

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 10369

```

Lys Gln Leu Ala Pro Gly Asn Arg Ala Ala Arg Lys Gly Glu Arg Ala
1          5          10          15
Gly Ala Ala Pro Gln Lys Glu Asp Arg Arg Arg His Gly Arg Gly Val
          20          25          30
Gln Lys Gly Gln Lys Pro Ala Glu Gly Asn Asn Asn Gln Gln Lys Gln
          35          40          45
Glu Ile Gln Thr Ala Gln Asn Glu Pro Asp Lys Gln Ser Lys Thr Arg
          50          55          60
Thr Asp Gly Arg Gly Lys Thr Gly Gln Pro Gln Lys Glu Gly Glu Glu
65          70          75          80
Lys Gly Thr Gln Glu Glu Gln Ala Glu Arg Thr Gln Ser Ser Arg Ile
          85          90          95
Lys Ile Phe Thr Cys Pro
          100

```

<210> 10370

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10370

```

Pro Gly Lys Gly Trp Phe Gly Leu Gly Lys Arg Asn Pro His Gly Ala
1          5          10          15
Lys Gly Asn Tyr Asp Met Val Glu Thr Val Lys Gly Trp Lys Gly Thr
          20          25          30
Met Gly Asn Met Gly Tyr Leu Gly Asp Gly Phe Ala Arg Ile Thr Arg
          35          40          45
Gly Asp Ala Ser Leu Phe Leu Gly Lys Asn Lys Thr Leu Val Arg Met
          50          55          60
Met Arg Lys Arg Arg Gln
65          70

```

<210> 10371

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10371

```

Ile Leu Gln Leu Glu Ile Gln Phe His Lys Leu Leu Asp Ser Phe Pro
1          5          10          15
Asp Phe Asp Phe Phe Ser His Thr Leu Met Ala Arg Phe Pro Cys Leu
          20          25          30
Phe Phe Ala Ser Leu Thr Ser Val Tyr Ser Ser Ser Thr Tyr Pro Thr
          35          40          45
Leu His His His Leu Lys Ser Ile Phe Leu Ile Pro Leu Ser Phe Ser
          50          55          60

```

65

<210> 10372

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 10372

```

Arg Asp Leu Tyr Thr Val Leu Asn Gln Gly Glu Leu Met Asn Glu Leu
1          5          10          15

```

Lys Ser Lys Asn Glu Asn Ser Thr Lys Ser Asn Phe Pro Pro Val Asp
 20 25 30
 Asn Gln Phe Cys Phe Tyr His Val Asp Phe Ser Ile Glu Arg Leu Leu
 35 40 45
 Ser Thr Ala Glu Asp Leu Gln Leu Glu Tyr Ile Phe Gln Lys Pro Gly
 50 55 60
 Ser Glu Val Arg Lys Asp Leu Val Glu Arg Phe Glu Arg Gly Glu Arg
 65 70 75 80
 Phe Val Thr Ala Ser His Cys Asp Asn Phe Cys Glu Ile Leu Gly Cys
 85 90 95
 Gln Gly His Gln Glu Asn Ala
 100

<210> 10373

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 10373

Arg His Ile Pro Ala Cys Arg Ser Ala Asp Thr Ser Ala Arg Ala Phe
 1 5 10 15
 Phe Gly His His Ile Ser Gly Gln Glu Ile Leu Ser Gly Arg Gly Val
 20 25 30
 Thr Glu Gln Gln Leu Gly His Cys Gln Gln Leu Ala Asp Leu Thr Pro
 35 40 45
 Leu Ile Ala Lys Leu Gly Phe Cys Ser Asp Val Asp Leu Pro Phe Trp
 50 55 60
 Ala Gly Phe Gly Leu Leu Thr Leu Thr Ser Ile Ile Arg Asn Val Leu
 65 70 75 80
 Asp Asp Ala Asp
 85

<210> 10374

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10374

Tyr Arg Leu Thr Ser Tyr Ser Tyr Met Pro Val Cys Arg His Gln Cys
 1 5 10 15
 Leu Gly Tyr Phe Arg Ser Lys Gln Asp Leu Ala Arg Asp Leu Ile Lys
 20 25 30
 Arg Gly Val Thr Glu Gln Gln Leu Gly Ala Leu Ser Ser Ala Cys Lys
 35 40 45
 Phe Asn Pro Leu Asn Arg Gln Thr Trp Val Gln Ser
 50 55 60

<210> 10375

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10375

Val Met Pro Met Phe Thr Arg Ile Gln Lys Asp Asn Gly Trp Asp His
 1 5 10 15
 Leu Asn Asp Leu Arg Glu Lys Phe Asn Gly Lys Val Phe Lys Val Asn
 20 25 30
 Glu Gln Ile Ile Ser Arg Phe Gln Ile Lys Asn Thr Pro Ala Ile Ile
 35 40 45
 Thr Thr Asp Gln Asp Lys Phe Arg Ile Thr Leu Phe Ser Glu Ala Glu
 50 55 60

Val Arg Gly Ile Gly Ala Pro Asn Leu Ser Glu Glu Lys
65 70 75

<210> 10376

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 10376

Phe Leu Arg Val Lys Ile Met Lys Leu Arg Lys Thr Ile Ala Ser Thr
1 5 10 15
Ile Ile Ala Ser Met Ile Ala Asn Thr Met Ser Trp Ala Phe Tyr Ile
20 25 30
Ser Leu Ile Asn Met Val Met Thr Pro Arg Ile Tyr Ala Ala Asp Ala
35 40 45
Ile Phe Asp Gln Leu Glu Ser Asn Phe Asn Leu Ala Asn Pro Asn Ala
50 55 60
Asn Arg Asn Ala Thr Thr Ser Ala Gln Asp Ile Val Glu Lys Tyr Lys
65 70 75 80
Asn Ala Asp Ser Gly Glu Asn Val Ser Gly Lys Ile Thr Glu Lys Tyr
85 90 95
Val Gly Lys Ala Glu Ser Ala Asn Leu Asn Leu Gly Lys Tyr Gly Ala
100 105 110
Gly Asn Ser Asn Glu Ser Val Met Lys Asn Ala Ala Ser Asp Gly Lys
115 120 125
Ser Ile Gly Ser Ala Val Gln Leu Pro Ser Met
130 135

<210> 10377

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10377

Val Arg Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
1 5 10 15
Lys Lys Lys Lys Lys Tyr Pro Pro Gly Gln Ala Ser Ala Ser Tyr Ala
20 25 30
Pro Glu Pro His Leu Thr Val Phe Met Thr Asp Tyr Phe Ile Pro Ile
35 40 45
Arg Pro Gly Pro Thr Ile Val Ser Ile Ala Thr Arg Arg Glu Glu Ser
50 55 60
Ile Gly
65

<210> 10378

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10378

Ser Tyr His Val Thr Met Val Leu Ser Gly Leu Leu Asn Gln Lys Ile
1 5 10 15
Asn Trp Ser Thr Gly Ser Arg Gly Ile Leu Arg Lys Gln Cys Lys Arg
20 25 30
Asp Ser Ser Glu Ser Phe Phe Ile Cys Ile Glu Lys Gly Ser Ile Met
35 40 45
Asn Glu Asn Ile Leu Gln Gly Asn Arg Lys Asn Leu Ser His Tyr Pro
50 55 60
Arg
65

<210> 10379
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 10379
 Met Lys Thr Tyr Tyr Lys Val Thr Gly Lys Thr Cys His Thr Ile His
 1 5 10 15
 Ala Glu Leu Arg Lys Ile Gly Asp Leu Ile Asn Pro Ile Pro Asn Lys
 20 25 30
 Lys Tyr His Ile Lys Arg Met Met Thr Lys Ala Thr Arg Leu Leu Leu
 35 40 45
 Ile Lys Ser Ile Ser Glu Arg Ile Lys Asn Asn Arg
 50 55 60

<210> 10380
 <211> 307
 <212> PRT
 <213> Enterobacter cloacae

<400> 10380
 Met Asn Ala Ile Gln Lys Leu Val Glu Ser Ile Leu Val Lys Met Gly
 1 5 10 15
 Phe Val Gly Ala Val Val Glu Asn Ile Tyr Leu Asp Ser Lys Pro Phe
 20 25 30
 Arg His Ile Arg Phe Val Ala Asp Ile Pro Val Ile Ser Phe Leu Pro
 35 40 45
 His Leu Val Lys Tyr Leu Lys Gly Ala Asp His Leu Tyr Cys Gly Asn
 50 55 60
 Asp Asp Leu His Pro Leu Phe Ile Tyr Phe Ser Glu Ala Ala Thr Leu
 65 70 75 80
 Lys Ala Gly Pro Val Asn Leu Ala Asn Phe Arg Phe Glu Val Ser Ile
 85 90 95
 Ala Ser Thr His Leu Arg Leu Val Ser Glu Gln Pro Asp Leu Leu Ile
 100 105 110
 Lys Gly Phe Asn Arg Asp Asn Leu Glu Tyr Val Tyr Tyr Arg Ser Asp
 115 120 125
 Leu Ala Ser Lys Asp Leu Ile Leu Gly Leu Val Glu His Gly Ser Pro
 130 135 140
 Phe Ile Lys His Leu His Gly Leu Ile Gln Lys Arg Ile Leu Asn Glu
 145 150 155 160
 Phe Ser Leu Ile Phe Ser Val Leu Glu Lys Ile Leu Glu Ser Ala Lys
 165 170 175
 Pro Gln Ile Leu Ala Cys Phe His Ser Val Asp Tyr Glu Met Asn Val
 180 185 190
 Lys Ile Ile Ala Glu Ala Ile Pro Glu Thr Val Ser Asn Gln Ile Val
 195 200 205
 Thr Ser Asp Tyr Ile Val Asn Ser Ile Ser Asp Ala Asp Lys Phe Ile
 210 215 220
 Asn His Val Arg Arg Tyr Leu Ala Gly Arg Val Met Lys Arg Arg Ile
 225 230 235 240
 Tyr Ala Glu Leu Asp Val Cys Glu Glu Thr Ser Asn Ile Ser Leu Val
 245 250 255
 Asn Leu Gly Cys Phe Thr Ser Pro Leu Leu Val Thr Glu Tyr Gln Met
 260 265 270
 Phe Lys Pro His Ser Ser Gly Leu Tyr Arg Lys Ala Ile Asn Asn Ser
 275 280 285
 Leu Lys Gln Phe Lys Pro Glu Met His Val Pro Ser Glu Glu Leu Phe
 290 295 300
 Tyr Asn

305

<210> 10381

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 10381

```

Met Phe Lys Glu Ser Asp His Val Glu Phe Val Ser Ala Phe Leu Tyr
1      5      10      15
Gln Asn Leu Gly Leu Asn Val Pro Ala Asp Asp Ile Thr Val Gln Leu
      20      25      30
Ser Asp Thr Ser Phe Asp Lys Val Thr Phe Asp Tyr Asp Val Asp Ile
      35      40      45
Asp Asn Leu Asn Cys Met Leu Asp Leu Tyr Ile Ser Glu Leu Ile Lys
      50      55      60
His Asn Ala Ser Tyr Ser Asp Ser Ile Leu Leu Lys Gln Lys Ile Ile
65      70      75      80
Tyr Phe Leu Gly Val Phe Lys Asn Phe Gly Phe Phe Thr Phe Asp Ile
      85      90      95
Arg Gly Tyr Ser Asn Thr Leu Ser Pro Val Lys Val Ile Asp Ile Val
      100     105     110
Ser Met Ile Ile Asn Asp Cys Glu Glu Leu Ser Lys Ala Asn Ser Ser
      115     120     125
Thr Asp Ala Ile Arg Asn Leu Tyr Leu Asp Lys Met Lys Val Asp Gly
      130     135     140
Lys Val Leu Val Ala Lys Phe Ala Leu Lys Gln Phe Phe His Ser Asp
145     150     155     160
Phe Gly Asp Phe Ile Ser Phe Val Glu Glu Lys Asn Tyr Arg Leu Ser
      165     170     175

```

<210> 10382

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 10382

```

Ser Phe Ile Val Asn His Leu Arg Phe Pro Ile Val Leu Arg Glu Gly
1      5      10      15
Cys Lys Ile Glu Arg Gly Glu Val Tyr Ser Ile Ser Asn Cys Thr Tyr
      20      25      30
Asn Lys Glu Arg Leu Gln Tyr Leu Phe Ser Gln Asp Ile Tyr Gly Lys
      35      40      45
Leu Tyr Asn Ser Leu Glu Lys Glu Leu Ser Ser Phe Ser Phe Ile
      50      55      60
Asn Val Glu Val His Glu Leu Leu Lys Asp Ala Val Cys Phe Ala Leu
65      70      75      80
Lys Ile Leu Asn Lys Ile Ser Leu Asp Thr Pro Glu Arg Leu Ile Lys
      85      90      95
Ala Phe Asn Tyr Arg Asp Trp Tyr Cys Ser Tyr Asp Val Glu Leu Phe
      100     105     110
Arg Lys Gly Leu Pro Gly His Ile Leu Glu Glu Leu Ile Ala Pro Asp
      115     120     125
Ile Leu Leu Ser Asp Leu Asn Gly Cys Arg Lys Ile Leu Arg Asn Ala
      130     135     140
Lys Arg Phe Leu Asn Gly His Thr Lys Thr Asn Cys Val Tyr Ile Lys
145     150     155     160
Tyr Glu Trp Trp Leu Gly Pro Val Asp Thr Ser His Ser Ala Lys Leu
      165     170     175

```

Met Ser Asp Lys Glu Ile Asn Asn Arg Ser Asp Leu Lys Asn Phe Ser
 180 185 190
 Lys Val Phe Phe Lys Glu Cys Leu Ser Ser Gly Lys Ser Glu Tyr Glu
 195 200 205
 Asn His Leu Ser Glu Lys Glu His Ala Leu Arg Tyr Asn Tyr
 210 215 220

<210> 10383
 <211> 166
 <212> PRT
 <213> Enterobacter cloacae

<400> 10383
 Leu Arg Asn Leu His Leu Asn Ser Phe Phe Ile Pro Thr Leu Val Thr
 1 5 10 15
 Leu Ser His Leu Ser Lys Lys Arg Ile Thr Asp Cys Leu Asn Glu Thr
 20 25 30
 Leu Arg Ile Ile Lys Ala Val Glu His Gly Phe Val Arg Val Gly Gln
 35 40 45
 His Lys Ile Asn Arg Arg Ile Asn Asp Asp Leu Lys Leu Cys Ile Asp
 50 55 60
 Phe Asn Thr Asp Asp Tyr Pro Ala Asn Met Pro Asp Ile Tyr Ile Lys
 65 70 75 80
 Phe Asn Asp Thr Phe Asp Gly Asn Gly Ala Leu Tyr Cys Asp Asn Asp
 85 90 95
 Ala Leu Ile Ser Leu Tyr Thr Asp Val Ala Ser Ile Ile Asn Val Pro
 100 105 110
 Val Met Met Glu Val Arg Leu Ile Asn Lys Arg Gly Arg Val Val Cys
 115 120 125
 Asp Ser Ser His Ser Thr Tyr Val Ser Leu Glu Ser Asn Asp Arg Tyr
 130 135 140
 Arg Val Thr Asp Arg Thr Leu Leu Ile Thr Glu Ala Phe Asp Asp Phe
 145 150 155 160
 Arg Asn Ala Ser Gln
 165

<210> 10384
 <211> 90
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (24)

<400> 10384
 Pro Asn Phe Tyr Leu Thr Gln Trp Gly Ser Arg Phe Pro Ser Gly Ala
 1 5 10 15
 Leu Pro Leu Lys Phe Glu Val Xaa Tyr Met Thr His Ser Ser Asp Asp
 20 25 30
 Lys Asn Tyr Val Arg Ala Val Leu Ser Tyr Leu Gly Ile Asp Phe Asp
 35 40 45
 Glu Ala Asp Ile Val Leu Ser Val Cys His Cys Gln Ser Asp Glu Leu
 50 55 60
 Ser Phe Thr Cys Asn Ile Lys Ala Ile Glu Leu Lys Asn Ala Val Asp
 65 70 75 80
 Leu Tyr Val Asp Ser Ile Ser Glu Gln
 85 90

<210> 10385
 <211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10385

```

Ile Arg Tyr Leu Trp Ile His Leu Lys Asp Leu Leu Lys Leu Leu Ile
1           5           10           15
Ile Val Thr Gly Ile Val Val Thr Met Leu Ser Phe Leu Gly Lys Ala
          20           25           30
Tyr Leu Val Ile Phe Trp Lys Ser Ser Leu Leu Gln Ile Ser Tyr Phe
          35           40           45
Gln Thr Leu Thr Val Val Glu Lys Tyr Leu Glu Met Gln Asn Asp Phe
          50           55           60

```

65

<210> 10386

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10386

```

Ile Gln Gln Ile Ala Val Lys Asn Ser Thr Ala Leu Asn Asp Lys Lys
1           5           10           15
Ile Pro Phe Asn Thr Thr Lys Ile Thr Leu Ala Ile Ile Ile Asn Phe
          20           25           30
Ile Tyr Tyr Arg His Ser Val Leu Asn Val Cys Leu Ser Leu Ile Glu
          35           40           45
Pro Asp Ala Ser His Ser Val Phe Phe Tyr Leu Ser Leu Arg Gln Pro
          50           55           60
Thr Phe Asn Val Leu Pro Leu Gly Asn Asp Asn Asp Tyr
          65           70           75

```

<210> 10387

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10387

```

Val Asn Phe Asp Tyr Phe His Leu Trp Asp Ile Lys Ser Leu Ile Leu
1           5           10           15
Phe Thr Ser Arg Leu Ile Pro Thr Lys Ile Phe Gln Met Ile Leu Arg
          20           25           30
Ala Leu Gln His Ile Asn Gln Asn Leu Lys Asp Cys Ser Glu Glu Pro
          35           40           45
Ala Phe Leu Leu Pro Tyr Tyr Leu Ala Ile Phe Phe Phe
          50           55           60

```

<210> 10388

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10388

```

Arg Gln Gly Leu Thr Gln Arg Glu Leu Ser Ala Met Leu Gly Val Thr
1           5           10           15
Gln Gln Thr Tyr Ala Arg Leu Glu Ala Asn Pro Ser Lys Ala Ser Phe
          20           25           30
Glu Arg Leu Tyr Lys Val Leu His Ile Leu Gly Val Glu Ile Ser Leu
          35           40           45
Ser Ser Ala Pro Leu Ser Thr Tyr Thr Lys Pro Thr Asn Phe Val Glu
          50           55           60

```

Lys Glu Phe Asp Ser Pro Ala Arg Arg Glu Glu Trp
 65 70 75

<210> 10389

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 10389

Lys Leu Thr Phe Ser Val Leu Ile Thr Ala Cys Gly Asp Lys Asp Gly
 1 5 10 15
 Gln Val Lys Asn Gln Ser Val Arg Ile Val Asp Ile Gln Gln Val Ile
 20 25 30
 Ile Asn Ser Gly Leu Ala Glu Gln Glu Ala Glu His Leu Lys Ser Val
 35 40 45
 Arg Lys Thr Leu Ala Asp Gly Leu Thr Leu Ala Gln Ala Gln Tyr Glu
 50 55 60
 Asn Leu Pro Glu Glu Lys Lys Asn Glu Ala Lys Gln Asn Asp Asn Lys
 65 70 75 80
 Leu Ile Glu Tyr Gln Trp Gln Asn Glu Arg Phe Leu Ala Arg Lys Ala
 85 90 95
 Val Gly Gln Thr Ile Gln Asn Ala Ile Asp Lys Trp Arg Ile Lys Asn
 100 105 110
 Asn Ile Ser Ile Ile Ile Pro Arg Gln Gln Ala Leu Ser Leu Asp Glu
 115 120 125
 Gly Leu Asp Ile Thr Pro Leu Ile Val Lys Glu Leu Lys Gly Ala Lys
 130 135 140
 Val Lys Phe Gly Glu Leu Pro Val Ile Ser Leu Lys Gln Lys Glu Asn
 145 150 155 160
 Ser Pro Ser Glu Lys Glu Asn Gly
 165

<210> 10390

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10390

Ser Phe Lys Leu Ile Asn Lys Arg Gln Val Leu Met Leu Ser Asn Ile
 1 5 10 15
 Arg Met Asp Arg Ile Lys Asn Gln Ser Leu Arg Leu Val Asp Ile Gln
 20 25 30
 Gln Val Ile Ile Ile Ser Gly Leu Asp Arg Gln Glu Ala Asn His Leu
 35 40 45
 Lys Lys Leu Gln Gly Lys Ser Ser Met Asp Leu Arg Leu Leu Arg
 50 55 60
 Arg Ser Val
 65

<210> 10391

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10391

Ser Pro Glu Lys Thr Ser Gly Glu Lys Phe Ile Asp Gly Leu Ala Leu
 1 5 10 15
 Ala Gln Ala Leu Ser Met Lys Ile Tyr Ile Lys Arg Arg Gln Met Arg
 20 25 30
 Gln Tyr Asp Asn Lys Phe Ile Glu Tyr Leu Gly Arg Arg Ser Gly Lys
 35 40 45

Leu Val Leu Leu Ser Thr Lys Gly Leu Leu Ser Asn Lys Thr Thr Val
 50 55 60
 Ser Ala Phe Leu Gly Ile
 65 70

<210> 10392

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 10392

Ile Ala Cys Gly Leu Thr Phe Lys Asn Ser Cys Lys Gly Gly Gln Met
 1 5 10 15
 Leu Ser Ser Lys Lys Arg Lys Ser Pro Thr Asn Ile Lys Glu Ser Leu
 20 25 30
 Asn Asp Asn Ala Asp Arg Phe Tyr Lys Met Phe Arg Ile His Thr Thr
 35 40 45
 Ala Lys Val Ala Met Ser Leu Ile Ala Met Thr Ala Val Gly Phe Ser
 50 55 60
 Phe Tyr Asn Leu Tyr Glu Gln Trp Gln Asp Ala Glu Gly Lys Lys Asp
 65 70 75 80
 His Ile Ala Val Ile Arg Ile Ser Gly Glu Met Gly Thr Gly Ser Glu
 85 90 95
 Thr Gly Asp Gly Thr Val Ile Ala Thr Ala Leu Ala Lys Ala Tyr Asn
 100 105 110
 Asn Pro His Ala Lys Ala Val Ile Ile Glu Ala Glu Ser Gly Gly Gly
 115 120 125
 Gly Pro Ser Asp Ala Ile Ile Tyr Arg Gln Ile Asn Ala Leu Lys
 130 135 140
 Asn His Gln Pro Gln Ile Glu Arg Val Ser Asp Ala Gly Gly Ser Leu
 145 150 155 160
 Ser Ser Val Ala Ala Asp Lys Ser Asn Lys Thr Gly Ser Thr Glu Arg
 165 170 175
 Gly Asp Glu Ala Arg Ser Lys Gln Asn Ser Leu Glu Val Leu Ser Ser
 180 185 190
 Gly Thr Gly Arg Phe Phe Ser Asp Ile Ala Asp Ser Tyr Lys Pro Ile
 195 200 205
 Ile Val Ser Val Lys Gly Ile Cys Ala Ser Ala Cys Tyr Tyr Ala Val
 210 215 220
 Ser Pro Ala Asp Ala Ile Tyr Ala Asp Ser Asn Ala Leu Ile Gly
 225 230 235

<210> 10393

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 10393

Thr Ser Tyr Arg Arg Gly Ile Lys Pro Gln Ile His Pro Glu Thr Thr
 1 5 10 15
 His Ser His Ile Val Thr Ile Glu Asp Ser Pro Phe Leu Ser Arg Leu
 20 25 30
 Lys Phe Lys Ile Ile Thr Ala Ile Asp Gln Leu Pro Asp Pro Asn Gly
 35 40 45
 Leu Tyr Thr Asn Thr Phe Asn Ser Ile Ile Asp Arg Ala Leu Leu Thr
 50 55 60
 His Leu Lys Thr Glu Gln Glu Lys Ile Asp Ser Pro Arg Val Cys Lys
 65 70 75 80
 Asn Val Ile Ser Ala Phe Ala Asp Ser Thr Leu Ser Leu Pro Val Phe
 85 90 95
 Asn Ile Gly Leu Asn Glu Gln Tyr Arg Tyr Trp Thr Pro Trp Gly Ile

100 105 110
 Asn Phe Ile Glu Phe Ser Arg Gln Ala Ala Lys Ala Arg Thr Ala Val
 115 120 125
 Phe Val Pro Asp Val Gly Gln Ile Glu Trp Lys Ser Ala Glu His Lys
 130 135 140
 Glu Leu Ala Glu Leu Ser Leu Ile Asp Gln Ile Ile Pro Lys Gln Tyr
 145 150 155 160
 His Trp Leu Leu Gly Ile Pro Thr Met Trp Arg Asn Asn Tyr Cys Asn
 165 170 175
 His Asp Gln Arg Leu Ala Leu Phe Arg Glu Trp Arg Glu Ser Asn Gly
 180 185 190
 Cys Gly
 195

<210> 10394

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 10394

Leu Phe Phe Val Asn Gly Gly Lys Ala Met Ala Ala Asp Asn Thr Ser
 1 5 10 15
 Arg Ala Ala Val Leu Arg Thr Met Leu Phe Phe Gly Met Val Ile Tyr
 20 25 30
 Phe Gly Tyr Ser Leu Ala Phe Gln Asn Thr Glu Glu Leu Lys Tyr Gln
 35 40 45
 Ile Thr Gln Glu Val Asn Ala Ser Arg Ser Ile Ile Ser Asn Asp Arg
 50 55 60
 Trp Lys Ser Val Ile Ala Asn Ser Glu Ala Thr Leu Asn Trp Leu Val
 65 70 75 80
 His Asp Tyr Lys Leu Ile Asp Tyr Leu Asn Thr Ile Leu Ile Pro Asp
 85 90 95
 Thr Lys Lys Pro Ala Arg Gly Ile Asn Ile Val Ala Glu Lys Phe Thr
 100 105 110
 Ser Ile Asn Tyr Thr Met Ala Lys Asn Ile Pro Leu Leu Leu Tyr Gln
 115 120 125
 Ser Ile Phe Arg Trp Asn Leu Ile Leu Gly Trp Leu Ile Val Phe Leu
 130 135 140
 Pro Tyr Leu Phe Ala Met Leu Ala Asp Gly Met Tyr Gln Trp Lys Leu
 145 150 155 160
 Lys Arg Tyr Val Phe Gly Lys Val Thr Val Gln Phe Tyr Arg Ile Trp
 165 170 175
 Phe Arg Ala Phe Trp Val Ile Ser Ala Leu Thr Met Val Tyr Leu Val
 180 185 190
 Met Pro Asn Met Ser Leu Phe Asn Asn Ile Ala Gln Leu Phe Pro Pro
 195 200 205
 Val Ala Leu Leu Ile Leu Gly Ile Ala Leu Asn Arg Leu Trp Ser Asn
 210 215 220
 Phe Gln Lys Leu Met
 225 230

<210> 10395

<211> 170

<212> PRT

<213> Enterobacter cloacae

<400> 10395

Gly Ser Met Asn Asn Ile Phe Leu Gln Phe His Ile Tyr Gly Leu Asp
 1 5 10 15
 Ala Ser Lys Asp Tyr Ser Leu Ser Ile Ile Thr Arg Asn Gly Ser Gln
 20 25 30

```

Pro Ala Thr Val Ile Asn Ile Asp Asp Pro Lys Asn Arg Asp Leu Ala
    35          40          45
Leu Leu Lys Val Glu Lys Asn Thr Ile Val Lys Ala Pro Pro Asn Trp
    50          55          60
Lys Leu Pro Val Cys Asp Asn Val Leu Ala Pro Gly Glu Ser Val Trp
    65          70          75          80
Val Leu Ser Gly Met Tyr Asn Thr Leu Ser Asn Thr Tyr Ala Ser Pro
    85          90          95
Asp Ser Thr Tyr Tyr Tyr Lys Gly Ile Val Gly Ser Asp Gly Leu Thr
    100         105         110
Ala Phe Tyr Gln Asn Gly Val Ser Gly Ser Ala Val Leu Asn Gln Ser
    115         120         125
Lys Ser Cys Leu Tyr Gly Val Val Ser Gln Gln Asp Ile Lys Lys Ile
    130         135         140
Asn Val Tyr Gln Ile Tyr Ile Thr Lys Ile Thr Thr Asn Glu Ile Ile
    145         150         155         160
Arg Gly Phe Ile Gly Tyr Lys Asn Asn
    165         170

```

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<210> 10396
<211> 86
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 10396
Met Ser Val Ile Leu Gln Gln Ala Ile Pro Thr Leu Ser Ala Leu Val
1          5          10          15
Tyr Leu Ser Glu Pro Leu Lys Gly Thr Ser Ile Met Tyr Lys Leu Leu
    20         25         30
Pro Ala Ile Leu Val Phe Leu Ser Val Phe Leu Gly Leu Ile Ala Leu
    35         40         45
Leu Ser Ala Ile Lys Asn Gly Ser Asp Glu Leu Ala Val Phe Leu Ile
    50         55         60
Thr Leu Ser Ala Trp Phe Ala Ala Leu Ser Lys Phe Tyr Ser Leu Lys
    65         70         75         80
Leu Tyr Lys Asn Ser
    85

```

```

<210> 10397
<211> 61
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 10397
Arg Lys Ser Thr Thr Ala Leu Ser Tyr Tyr Ile Tyr Gly Ala Lys Glu
1          5          10          15
Asp Gly Gly Glu Val Val Leu Arg Pro Phe Ile Val Asn Pro Asp Glu
    20         25         30
Leu Met Leu Thr Pro Ala Asp Val Val Glu Phe Asn Ser Gln Val Ile
    35         40         45
Asn Val Asp Arg Gln Arg His Pro Glu Trp Phe Arg
    50         55         60

```

```

<210> 10398
<211> 61
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 10398
Pro Pro Pro Pro Phe Leu Gly Gly Leu Gly Ala Trp Gly Met Val Tyr
1          5          10          15

```

Met Thr Lys Gln Gly Leu Glu Gly Ser Thr Gln Gln Leu Lys Ala Asn
 20 25 30
 Trp Gln Asp Leu Pro Asp Ser Val Pro Asp Val Lys Gly Tyr Thr Gly
 35 40 45
 Trp Asp His Met Arg Cys Asp Met Asp Ala Gly Arg
 50 55 60

<210> 10399

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 10399

Leu Met Lys Gly Leu Cys Thr Val Leu Ala Ala Thr Ser Val Val Leu
 1 5 10 15
 Ala Thr Gly Cys Gln Ala Lys Glu Pro Pro Thr Gln Val Val Tyr Arg
 20 25 30
 Phe Asp Asp His Arg Phe Leu Glu Leu Lys Gly Trp Gly Cys Glu Gly
 35 40 45
 Glu Leu Trp Tyr Thr Asp Thr Leu Arg Gly Ile His Thr Arg Pro Val
 50 55 60
 Ser Gln Phe Tyr Arg Ile Phe Thr Lys Lys Phe Val His Pro Ser Glu
 65 70 75 80
 Arg Tyr Ile Ala Ile Pro Thr Trp Asp Asp Pro Gly Thr Met Ile Ser
 85 90 95
 Lys Asp Tyr Gly Lys Thr Trp Ser Pro Gln Phe Phe Ser Val Gly Pro
 100 105 110
 Asn Glu Pro Asp Gly Thr Asn Gln Pro Ser Tyr Glu Asp Ile Ile Ser
 115 120 125
 Phe Thr Val Val Asn Asp Gln Gly Phe Leu Leu Thr Lys His Arg Leu
 130 135 140
 Tyr Met Ser Ser Lys Pro Phe Glu Asp Pro Arg Ile Leu Pro Gly Gly
 145 150 155 160
 Pro Gly Ile Ala Tyr Thr Val Asp Asp Gly Met Arg Asn Lys Val Ser
 165 170 175
 Asp Thr Leu Asp Pro Arg Phe Pro Gly Trp Ala Trp Gly Met Val Tyr
 180 185 190
 Met Thr Lys Gln Gly Leu Lys His Ser Thr Gln Gln Phe Lys Ala Asn
 195 200 205
 Trp Gln Asp Leu Pro Asp Ser Val Pro Glu Val Lys Gly Tyr Thr Gly
 210 215 220
 Trp Asp His Met Arg Cys Asp Met Asp Ala Gly Arg
 225 230 235

<210> 10400

<211> 237

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (212)

<400> 10400

Leu Met Lys Gly Leu Cys Thr Val Leu Ala Ala Thr Ser Val Val Leu
 1 5 10 15
 Ala Thr Gly Cys Gln Ala Lys Glu Pro Pro Thr Gln Val Val Tyr Arg
 20 25 30
 Phe Asp Asp His Arg Phe Leu Glu Leu Lys Gly Trp Gly Cys Glu Gly
 35 40 45
 Glu Leu Trp Tyr Thr Asp Thr Phe Arg Gly Ile His Thr Arg Pro Val

```

      50              55              60
Ser Gln Phe Tyr Arg Ile Phe Thr Lys Lys Phe Val His Pro Ser Glu
65              70              75              80
Arg Tyr Ile Ala Ile Pro Thr Trp Asp Asp Pro Gly Thr Met Ile Ser
      85              90              95
Lys Asp Tyr Gly Lys Thr Trp Ser Pro Gln Phe Phe Ser Val Gly Pro
      100              105              110
Asn Glu Pro Asp Gly Thr Asn Gln Pro Ser Tyr Glu Asp Ile Ile Ser
      115              120              125
Phe Thr Val Val Asn Asp Gln Gly Phe Leu Gln Thr Lys His Arg Leu
      130              135              140
Tyr Met Ser Ser Lys Pro Phe Glu Asp Pro Arg Ile Leu Pro Gly Gly
145              150              155              160
Pro Gly Ile Ala Tyr Thr Val Asp Asp Gly Met Gly Asn Lys Val Ser
      165              170              175
Gly Lys Leu Asp Pro Arg Ser Pro Gly Trp Ala Trp Gly Met Val Tyr
      180              185              190
Met Thr Lys Gln Gly Leu Glu Gly Ser Thr Gln Gln Leu Lys Ala Asn
      195              200              205
Trp Gln Asp Xaa Pro Asp Ser Val Pro Asp Val Lys Gly Tyr Thr Gly
210              215              220
Trp Glu His Met Gln Cys Asn Met Asp Ala Gly Lys
225              230              235

```

<210> 10401

<211> 68

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (29)

<400> 10401

```

Gly Asp Lys Ala Met Lys Gly Val Ile Arg Leu Asn Asp Pro Leu Ile
1              5              10              15
Ser Gly Arg Lys Val Thr Lys Ala Ser Gly Ala Asn Xaa Met Gly Gln
      20              25              30
Pro Val Ala Leu Lys Asp Asp Leu Ala Gln Cys Pro Leu His Lys Gly
      35              40              45
Lys Phe Ala Ile Thr Asp Cys His Gln Pro Gly Thr Cys Ile Gly Leu
50              55              60
Gly Leu Trp
65

```

<210> 10402

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10402

```

Met Ala Lys Leu Thr Asp Ile Tyr Ser Tyr Pro Ser Leu Ile Glu Ile
1              5              10              15
Ala Tyr Gln Ala Leu Ser Tyr Leu Ser Phe Asn Leu Ser Thr Val Tyr
      20              25              30
Ile Arg Lys Arg Asp Lys Lys Gln Phe Leu Tyr Asn Leu Phe Phe Val
      35              40              45
Ser Lys Gly Asp Ser Phe Asp Thr Ala Glu Lys Gly Leu Lys Arg Cys
50              55              60
Val
65

```

<210> 10403
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10403
 Thr Gly Asp Gln Asp Arg Glu Trp Phe Gly His Glu Cys Phe Arg Arg
 1 5 10 15
 Gly Gly Gly Glu Tyr Gln Leu Lys Ala Gly Val Tyr Gln Ser Trp Ser
 20 25 30
 His Ser Leu Leu Val Lys Val Arg His Ile Ile Lys Thr Lys Arg Gly
 35 40 45
 Lys Lys Leu Phe Ala Gln Gly Asn Ile Pro Leu Arg Lys
 50 55 60

<210> 10404
 <211> 101
 <212> PRT
 <213> Enterobacter cloacae

<400> 10404
 Ala Arg Asp Ser Ala Arg Pro Val Arg Gln Asp Glu Gly Ala Lys Ala
 1 5 10 15
 Gly Ala Leu Val Pro Ala Thr Arg Gln Ile Thr Val Lys Pro Val Arg
 20 25 30
 His Gly Ser Asp Gln Glu Asn Lys Arg Thr Gly Lys Arg Arg Pro Asp
 35 40 45
 Asp Arg Gln Val Lys Cys Gln Asp Glu Glu Arg Asn Glu His Asn Ala
 50 55 60
 Lys Glu Ser Glu Gln Arg Arg Asp Ile Lys Ser His Asp Asp Gly Asn
 65 70 75 80
 Cys Leu Leu Ser Val Lys Phe Ser Ser Met Leu Leu Gln Ser Pro Gln
 85 90 95
 Cys Phe Asn Glu
 100

<210> 10405
 <211> 74
 <212> PRT
 <213> Enterobacter cloacae

<400> 10405
 Ile Met Asn Ile Thr Asp Lys Glu Leu Ile Ser Asn Thr Val Arg Gln
 1 5 10 15
 Tyr Gly Trp Asn Leu Arg Glu Phe Asn His Ser Thr Pro Phe Thr Ser
 20 25 30
 His Phe Ile Tyr Ile Thr Asp Tyr His Lys Asp Asn Thr Trp Met Ile
 35 40 45
 Ser Leu Ser Gln Glu Asp Phe Asn Thr Thr Lys Ile Leu Thr Ser Leu
 50 55 60
 Ser Leu Gly Lys Val Arg Thr Ser Ser
 65 70

<210> 10406
 <211> 172
 <212> PRT
 <213> Enterobacter cloacae

<400> 10406
 Met Val Glu Ala Arg Tyr Gln Gly Lys Pro Val Ser Ser Leu Pro Glu

```

1           5           10           15
Glu Ala Phe Ala Glu Gly Leu Ser Arg Ser Gly Leu Ser Pro Val Leu
20           25           30
Leu Leu Ala Ser Pro Thr Thr Val Pro Val Thr Thr Asp Glu Arg Trp
35           40           45
Trp Leu Ala Lys Glu Asn Val Ser Gly His Tyr Gly Arg Ile Phe Tyr
50           55           60
Ala Ala Val Arg Glu Leu Val Ile Arg Ser Asp Ile Ile Ser Val Val
65           70           75
Arg Ser Ile Ala Asp Glu Asn Phe Thr Ser Glu His Met Gly Tyr Phe
85           90           95
Glu Arg Leu Thr Ser Asp Glu Lys Glu Val Val Phe Ser Asp Tyr Leu
100          105          110
Arg Thr Leu Ala Glu Gly Gly Leu Thr Cys Thr Glu Lys Asn Leu Val
115          120          125
Lys Leu Thr Gln Asp Leu Tyr Pro Ile Asp Ala Thr Pro Asp Asn Ile
130          135          140
Arg Lys Leu Ser Thr Asp Arg Asp Ala Leu Asn Glu Leu His Ile Asp
145          150          155          160
Gly Met Val Leu Phe Ile Thr Gly Pro Ala Leu
165          170

```

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<210> 10407
<211> 167
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 10407
Arg Ser Asn Met Ile Val Asn Lys Asn Arg Phe Met His Lys Asn Gly
1           5           10           15
Lys Arg Phe Lys Ser Ile Gly Arg Tyr Leu Arg Phe Trp Gln Ala Val
20           25           30
Ala Ser Ser Gly Leu Pro Met Asp Met Val Ile Arg Glu Lys Pro Tyr
35           40           45
Gln Leu Met Val Ala Leu Ile Ala Leu Tyr Thr Ala Ile Pro Val Val
50           55           60
Thr Ile Val Ile Leu Ser Gly Gln Gln Ser His Lys Leu Glu Leu Ile
65           70           75
Ala Val His Phe Ser Thr Ile Ile Thr Met Val Phe Val Leu Arg Arg
85           90           95
Lys Met Gly Lys Arg Trp Leu Asp Leu Phe Glu Glu Lys Leu Ala Ile
100          105          110
Tyr Lys Pro Asn Asp Lys Leu Ala Leu Ser Glu Leu His Glu Ser Ile
115          120          125
Arg Glu Lys Asn Gly Leu Asp Leu Gln Asp Leu Gln Asp Trp Tyr Trp
130          135          140
Lys Glu Lys Met Thr Tyr Glu Tyr His Lys Glu Arg Lys Thr Thr Ile
145          150          155          160
Ser Tyr Gln Lys Phe Lys
165

```

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<210> 10408
<211> 62
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 10408
Tyr Gly Phe Ser Arg Ile Thr Met Ser Met Gly Lys Pro Glu Asp Ala
1           5           10           15
Thr Ala Cys Gln Asn Leu Lys Tyr Leu Pro Met Asp Leu Asn Leu Phe
20           25           30

```

Pro Phe Leu Cys Ile Asn Leu Phe Leu Phe Thr Ile Met Leu Asp Leu
 35 40 45
 Tyr Phe Ser Val Ile Leu Glu Glu Cys Tyr Leu Asn Pro
 50 55 60

<210> 10409

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10409

Ile Thr Pro Lys Leu Cys Thr Ser Ser Met Phe Leu Ala Cys Trp Leu
 1 5 10 15
 Ser Ile Leu Met Ala Ala Ile Ala Phe Ala Leu Ser Lys Ser Ala Ala
 20 25 30
 Lys Met Ala Ile Ala Ile Leu Phe Met Ile Cys Ala Pro Arg Leu Arg
 35 40 45
 Ala Val Ile Arg Gly Asn Ala Leu Leu Leu Cys Ser Gly Phe Leu Ile
 50 55 60
 Lys Val
 65

<210> 10410

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 10410

Arg Asp Pro Pro Gly Phe Leu Ile Pro Pro Phe Ser Ala Ser Pro Cys
 1 5 10 15
 Arg Lys Arg Gly Lys Arg His Lys Thr Thr Thr Ile Leu Gln Ile Gly
 20 25 30
 Asp Leu Ala Gly Cys Phe Ile Ala Pro Leu Asn Asp Ile Leu Pro Val
 35 40 45
 Val Arg Ser Lys Ile Val Asp Asn Tyr Asn Ile Pro Leu Asn
 50 55 60

<210> 10411

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10411

Arg Arg Trp His Met Glu Ile Asp Leu Asp Asn Leu Leu Phe Asn Gly
 1 5 10 15
 Leu Asp Glu Ala Glu Glu Arg Asn Ala Glu Arg Leu Asp Asp Ala Asp
 20 25 30
 Lys Lys Ala Gln Ala Ile Val Ala Asp Asp Asp Cys Gly Glu Cys Leu
 35 40 45
 Gln Asp Leu Lys Lys Lys His Arg Ala Pro Arg Cys Phe Phe Tyr Glu
 50 55 60
 Cys Leu Leu Leu Pro Asp Ile Arg Ser Pro Ala Phe Cys
 65 70 75

<210> 10412

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10412

Pro Gly Lys Lys Gln Arg His Arg Cys Glu Gln Ile Lys Leu His Ala

1		5		10		15									
Lys	Val	Leu	Val	Ile	Thr	Lys	Arg	Val	Asn	His	His	Phe	Glu	Asn	Phe
		20						25					30		
Lys	Gln	Ile	Pro	Gln	Cys	Gln	Gln	Tyr	Gly	Glu	Pro	Gly	Lys	Ile	Asp
		35					40					45			
Asn	Leu	Pro	Asn	Ser	Thr	Met	Val	Tyr	Gly	Phe	Thr	Glu	Ile	Arg	Thr
	50					55					60				
Val	Lys	Glu	Ser	Gln	Met	Lys	His	His	Ile	Pro	Lys	Ser			
65					70					75					

<210> 10413

<211> 370

<212> PRT

<213> Enterobacter cloacae

<400> 10413

Val	Asp	His	Phe	Leu	Pro	Val	Val	Asp	Lys	Met	Ala	Leu	Asn	Tyr	Ile
1				5				10					15		
Arg	Ala	Glu	Arg	Glu	Ala	Glu	Glu	Pro	Tyr	Arg	Gln	Met	Leu	Ser	Gln
		20					25					30			
Ala	Leu	Ala	Asp	Gly	Asn	Ile	Gly	Gln	Pro	Asn	Leu	Arg	Ser	Glu	Leu
	35					40					45				
Ile	Asp	Arg	Cys	Ile	Val	Ala	Trp	Arg	Ala	Asp	Asn	Arg	Gly	Ala	Thr
	50					55				60					
Leu	Glu	Ala	Ala	Met	Ser	Thr	Glu	Lys	Gly	Ser	Lys	Glu	Leu	Leu	Asn
65				70				75						80	
Gln	Leu	Tyr	Met	Leu	Ala	Asp	Val	Gly	Leu	Lys	His	Leu	Pro	Gly	Val
			85					90					95		
Arg	Asn	Phe	Ile	Ser	Ser	Lys	Gly	Tyr	Glu	Leu	Val	Arg	Leu	Ser	Val
		100					105					110			
Asn	Ala	Ser	Gly	Lys	Leu	Val	Ala	Tyr	Ala	Ala	Pro	Ala	Asn	Phe	Glu
	115					120					125				
Cys	Asp	Asn	Arg	Met	Glu	Gly	His	Ala	Trp	Val	His	Arg	Met	Val	Leu
	130					135					140				
Ala	Thr	Ser	Arg	Asn	Val	Leu	Asn	Val	Thr	His	Gln	Arg	Phe	Ala	Lys
145				150				155						160	
Met	Lys	His	Phe	Leu	Pro	Ala	Glu	Asn	Thr	Leu	Phe	Glu	Asp	Glu	Gln
			165					170					175		
Leu	Val	Ala	Thr	Trp	Ser	Gly	Lys	Lys	Thr	Ala	Phe	Lys	Ser	Phe	Glu
		180					185					190			
Glu	Lys	Gln	Arg	Tyr	Phe	Asp	Thr	Cys	Ser	Arg	Gly	Ala	Gln	Ala	Leu
	195					200					205				
Lys	Gln	Phe	Leu	Lys	Leu	Asn	Asp	Pro	Val	Ile	Tyr	Thr	Asn	Leu	Leu
	210					215				220					
Gly	Gln	Trp	Ile	Glu	Ala	Tyr	Glu	Ser	Ile	Asn	Glu	Thr	Ser	Glu	Tyr
225				230				235						240	
Val	Gln	Gln	Val	Ser	Leu	Met	Ala	Pro	Val	Ala	Val	Lys	Ser	Glu	Lys
			245					250					255		
Gly	Lys	Ala	Ser	Leu	Ile	Tyr	Ile	Gly	Thr	Lys	Asp	Leu	Ala	Asp	Trp
		260						265				270			
Phe	Tyr	Gln	Lys	Ala	Pro	Thr	Pro	Glu	Leu	Gln	Ala	Leu	Phe	Leu	Glu
	275					280					285				
Glu	Tyr	Leu	Ser	Lys	Phe	Glu	Asn	Lys	Glu	Val	Asn	Lys	Glu	Lys	Leu
	290				295					300					
Leu	Ser	Arg	Arg	Asn	Thr	Ala	Leu	Ser	Leu	Ser	Phe	Tyr	Thr	Met	Asp
305				310						315				320	
Asn	Gly	Glu	Val	Pro	Asp	Glu	Ile	Leu	Val	Thr	Lys	Ser	Val	Asp	Asn
			325					330					335		
Ala	Arg	Arg	Trp	Tyr	Ser	Gly	Met	Phe	Thr	Ser	Met	Pro	Thr	Met	Leu
		340						345				350			
Asn	Asp	Gln	Trp	Ser	Val	Phe	Thr	Thr	Gly	Ala	Gly	Arg	Ile	Arg	Ala

355 360 365
Tyr Leu
370

<210> 10414
<211> 92
<212> PRT
<213> Enterobacter cloacae

<400> 10414
Asn Trp Gln Ile Cys Tyr Thr Val Asn Leu His Arg Arg Val Ile Val
1 5 10 15
Arg Phe His Arg Arg Tyr Leu Leu Ser Lys Val Ser Arg Phe Ala Thr
20 25 30
Phe Phe Met Tyr Ser Leu Ser Gly Leu Glu Ser Phe Ile Val Gln Ser
35 40 45
Pro Glu Gly Ala Pro His Arg Leu Pro Glu His Trp Trp Ser Gln Leu
50 55 60
Lys Cys Asp Cys Ser His Pro Lys Ala Leu Ile Thr Gly Tyr Lys Ser
65 70 75 80
Ile Gly Gly Arg Gln Cys Asp Ser Thr Thr Val
85 90

<210> 10415
<211> 153
<212> PRT
<213> Enterobacter cloacae

<400> 10415
Arg Arg Gly Arg Arg Tyr Leu Met Tyr Arg Asn Asp Arg Asn Val Asp
1 5 10 15
Ser Phe Asn Leu Val Asn Ala Leu Gln Pro Val Phe Arg Asn Thr Gly
20 25 30
Cys Gly Met Phe Glu Tyr Asp Arg Lys Lys Gln Asn Glu Thr Ala Asp
35 40 45
Ser Ile Leu Arg Ala Leu Ala Leu Asn Ala Asp Phe Ala Arg Ala Leu
50 55 60
Lys Gln Tyr Val Arg Ile Asn Ser Val Arg Arg Val Val Gln Phe Asp
65 70 75 80
Asp Gly Ser Val Arg Tyr Gly Ile His Ala Glu Phe Glu Gly His Asn
85 90 95
Lys Ile Asn Ser Phe Arg Ile Phe Lys Asp Glu Asp Thr Asp Ala Phe
100 105 110
Asp Ser Tyr Phe Tyr Ser Val Cys Asp Asn Lys Ala Glu Leu Val Asp
115 120 125
Phe Lys Met Asp Ser Leu Asp Ile Gln Leu Gln Ala Val Phe Glu Lys
130 135 140
Val Thr Gly Ile Phe Leu Ser His
145 150

<210> 10416
<211> 123
<212> PRT
<213> Enterobacter cloacae

<400> 10416
Lys Lys Leu Gln Cys Gly Leu Leu Ala Ser Arg Ser Glu Phe Tyr Ile
1 5 10 15
Ile Pro Lys Asn Thr Gly Gly Ile Met Lys Thr Asn Leu Ala Tyr Ala
20 25 30
Ser Asn Cys Ser Asp Ser Val Tyr Ser Tyr Ile Tyr Gln Ala Leu Gln

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      35              40              45
Lys Arg Ser Gly Ala Glu Asn Glu Ser Leu Tyr Gln Gln Ala Ile Ser
  50              55              60
Ser Cys Cys Thr Asp Lys Gln Lys Lys Lys Leu Ala Gly Tyr Tyr Ala
  65              70              75              80
Gly Pro Trp Lys Leu Leu Phe Asn Ala Trp Cys Asn Asn Arg Val Pro
              85              90              95
Asn Thr Ala Val Leu Ala Leu Leu Leu Gln Gln Cys Leu Ser His Phe
              100              105              110
Gln Cys Glu Lys Val Ile Ala Ala Trp Gln
      115              120

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<210> 10417

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 10417

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Asn Ile Asp Glu Met Asn Met Lys Asn Val Asn Ile Leu Asp Thr Asp
1              5              10              15
Ile Ala Ala Ile Asn Ala Leu Ser Gly Val Lys Leu Thr Asp Phe Leu
              20              25              30
Thr Ala Gly Tyr Gln Val Asn Trp Leu Gly Glu Arg Glu Val Ser Leu
              35              40              45
Val Gly Phe Pro Cys Leu Ala Ser Asn Lys Gln Pro Val Glu Val Gly
              50              55              60
Pro Gly Ile Phe Ile Asn Arg Val Tyr Ser Arg Asp Ser Gln Ser Leu
  65              70              75              80
Ser Gly Lys Leu Arg Tyr Asp Leu Ser Asn Gly Leu Ala Thr Ser Ala
              85              90              95
Phe Ser Phe Phe Ser Gln Ser Gly Trp Tyr Gly Gly Phe Arg Val Val
              100              105              110
Ser Phe Arg Asp Asn Gly Pro Ala Ala Leu Ile Asn Ile Gly Ile Val
              115              120              125
His Glu Asn Val Leu Asn Ala Phe Cys Ala Asp Phe Pro Arg Ala Asn
  130              135              140
Val Ser Val Thr Arg Phe His Cys Gly Met Thr Leu Glu Gln Ile Arg
  145              150              155              160
Met Phe Ile Ser Asp Thr Ala Tyr Asp Met Pro Leu Tyr Asn Asn Glu
              165              170              175
Ser Asp Phe Arg Arg Leu Ala Ser
              180              185

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<210> 10418

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10418

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Asn Arg Gln Gln Ile Ser Thr Pro Ile Lys Lys Leu His Tyr Tyr Arg
1              5              10              15
Ser Tyr Glu Ile Thr Ile Ile Ser Glu Tyr Tyr Asp Phe Phe Pro Tyr
              20              25              30
Arg Thr Asn Arg Ser Arg His Leu Ala Thr Tyr Phe Phe Tyr Val Arg
              35              40              45
Leu Gln Arg Ser Thr Leu Arg Glu Val Ser Lys Thr Gly Arg Ser Gln
              50              55              60
Pro Val Pro Pro Pro Arg Ser Pro Ala Phe Arg Arg Lys His
  65              70              75

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<210> 10419

<211> 81
 <212> PRT
 <213> Enterobacter cloacae

<400> 10419
 Arg Ile Thr Leu Ser Ser Gly Gly Lys Thr Thr Asp Asp Asp Val Arg
 1 5 10 15
 Ala Ser Gly Leu Tyr Trp Pro Arg Met Cys Ala Asp Ile Tyr Gly Arg
 20 25 30
 Ser Gly Gly Arg Leu Ser His Val Gln Lys Ser Phe Tyr Ile Leu Ala
 35 40 45
 Val Asn Phe Asn Asn Ser Ala Phe Asn Ile Cys Gln Val Cys Thr Ile
 50 55 60
 Glu Met Lys Ser Ile Ile Ser Phe His Leu Gly Ile Tyr Ser Ala Ala
 65 70 75 80

<210> 10420
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10420
 Thr Ser Thr Ser Thr Ser Thr Phe Ser Asn Lys Asp Glu Ile Phe Val
 1 5 10 15
 Arg Ile Ser Pro Val Leu Leu Phe Leu Ser Leu Thr Ile Glu Glu Val
 20 25 30
 Leu Thr Ser Asn Lys Phe Asp Ile Thr Tyr Val Phe Leu Thr Ser Trp
 35 40 45
 Phe Arg Ser Ala Ile Leu Phe Ile Gln Arg Arg Arg Ser
 50 55 60

<210> 10421
 <211> 210
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (161)

<400> 10421
 Thr Thr Val Arg Ser Asn Met Glu Ala Ile Asn Asn Tyr Asn Ser Gly
 1 5 10 15
 Leu Asn Arg His Gln Leu Gly Gly Phe Ile Pro Val Tyr Asp Gln Leu
 20 25 30
 Ala Gly Thr His Tyr Phe Leu Ile Asp Gly Asn Arg Leu Gly Phe Met
 35 40 45
 Phe Ile Cys Asn Pro Ser Pro Gly Val Phe Asp Asn Gln Gln Asp Val
 50 55 60
 Leu Ala Glu Met Phe Lys Met Asp Phe Pro Thr Asp Thr Val Cys Gln
 65 70 75 80
 Ile Ser Leu Thr Ala Leu Pro Asp Leu Thr Leu Gln Leu Ser Ala Trp
 85 90 95
 Ser Ala Val Arg Gly Gly Arg Met Thr Gly Asn Asp Lys Leu Lys Ala
 100 105 110
 Asp Leu Leu Asn Gly Tyr Gln Leu Asp Tyr Tyr Asp Arg Ser Met His
 115 120 125
 Lys Pro Leu Lys Pro Asp His Asp Thr Leu Met Leu Arg Asp Phe Gln
 130 135 140

Val Trp Ile Ser Leu Ser Ile Pro Leu Gln Phe Ala Phe Pro Thr Glu
 145 150 155 160
 Xaa Glu His Ser Arg Ile Asp Ser Leu Tyr Ser Glu Leu Val Ser Lys
 165 170 175
 Leu Ile Thr Ile Gly Leu His Pro Phe Lys Val Asp Ala Glu Asn Trp
 180 185 190
 Leu Tyr Cys Ile Asp Lys Val Val Asn Pro Ala Lys Glu Leu Pro Val
 195 200 205
 Gly
 210

<210> 10422

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 10422

Thr Phe Pro Leu Gly Phe Ile Met Lys Thr Pro Asn Glu Ala Glu Ser
 1 5 10 15
 Glu Leu Leu Gln Thr Leu Ala Gln Val Arg Ser Val Asn Lys Lys Arg
 20 25 30
 His His Asp Glu Ala Glu Glu Pro Asp Lys Pro Ser Val Val Lys Arg
 35 40 45
 Gln Arg Val Thr Gln Gly Leu Thr Arg Ile Ser Thr Leu Asp Arg Gln
 50 55 60
 Ala Val Leu His Ala Ala Ile Arg Asp Ile Leu Leu Gly Lys Ile Thr
 65 70 75 80
 Gln Gly Glu Ala Leu Lys Arg Leu Arg Val Glu Val Leu Gly Leu Lys
 85 90 95
 Gln Asp Glu Tyr Ala Lys Leu Val Ser Val Ser Arg Lys Thr Leu Ser
 100 105 110
 Asp Val Glu Asn Asn Arg Gly Asn Tyr Ser Ala Asp Val Ile Asn Lys
 115 120 125
 Ile Phe Lys Pro Phe Gly Leu Gln Thr Gly Leu Val Pro Val Ser Lys
 130 135 140
 Ser Leu Ile Ala Ser Leu Phe Ser
 145 150

<210> 10423

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 10423

Tyr Ser His Asn Ser Asn Gln Pro Gly Trp Phe Asn Pro Ser Val Pro
 1 5 10 15
 Val His Gln Val Ser Phe Phe Ser Val Arg Met Ser Ile Asp Gly Ala
 20 25 30
 Pro Gln Lys Glu Val Gly Val Thr Val Ile Leu Pro Glu Ile Pro Leu
 35 40 45
 Cys Ser Gly Cys Val Leu Ser Phe Arg Gln Asp Thr Trp Leu
 50 55 60

<210> 10424

<211> 313

<212> PRT

<213> Enterobacter cloacae

<400> 10424

Val Met Thr Ile Glu Ser Phe Phe Ile Gly Thr Arg Met Ser Gly Lys
 1 5 10 15

Arg Tyr Gly Pro Gln Ser Lys Asp Met Gln Val Ser Glu Phe Ile Ala
 20 25 30
 Leu Ile Ser Pro Lys Asn Glu Pro Glu Lys Phe Val Leu Pro Asp Phe
 35 40 45
 Ser Gly Leu Ala Arg Arg Ile Asp Ala Gln Ile Arg Asn Gln Phe Ile
 50 55 60
 Gln Gln Lys Glu Asp Asp Tyr Tyr Arg Arg Tyr Arg Gln Leu Ser Asp
 65 70 75 80
 Arg Trp Tyr Gln Ala Gly Ser Ile Ser Asp Arg Asn Asn Arg Ser Gln
 85 90 95
 Arg Phe Glu Lys Val Met Asp Glu Ser Leu Glu Phe Leu Val Tyr Ser
 100 105 110
 His Asp Val Met Pro Asn Ile Asn Pro Tyr Asn Leu Lys Tyr Asp Asp
 115 120 125
 Arg Val Gln Val Ser Thr Lys Gly Lys Met Tyr Cys Val Ala Leu Leu
 130 135 140
 Phe His Ile Ile Ala Arg Ala Ala Tyr Glu Pro Val Ser Val Gly Ala
 145 150 155 160
 Asp Pro Thr Leu Gln Arg His Cys Lys Trp Leu Lys Asp Trp Ile Asn
 165 170 175
 Lys Thr Leu Gly Asp His Phe Leu Glu Gly Met Met Ile Thr Phe Ala
 180 185 190
 Leu Cys Tyr Pro Asp His Phe Pro Ala Leu Gln Arg Leu Ser Gly Glu
 195 200 205
 Leu Glu Thr Arg Asp Val Asp Thr Phe Leu Ala Asp Glu Val Arg Lys
 210 215 220
 Ala Arg Gln His Thr Glu Glu Gln Val Asn Tyr His Asn Gly Arg Tyr
 225 230 235 240
 Arg Leu Lys Phe Glu Tyr Thr His Phe His Gln Glu Gln Phe Asp Phe
 245 250 255
 Leu Ala Glu Met Arg Asp Leu His Tyr Arg Ile Asp Arg Ile Glu Gln
 260 265 270
 Leu Leu Gln Lys Leu Ile Asp Asn Pro Val Val Asp Phe Ser Glu Ala
 275 280 285
 Ala Val Ala Gly Gln Trp Ile Asp Glu Gln Val Gln Leu Leu Glu Thr
 290 295 300
 Asn Glu Thr Lys Leu Ile Leu Pro
 305 310

<210> 10425

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 10425

Ser Pro Leu Ser Arg Thr Pro Ala Pro Cys Gly Ala Glu Glu Cys Leu
 1 5 10 15
 Thr Leu Ile Glu Ser Ile Asn Val Asn Lys Arg Thr Leu Ser Ser Ser
 20 25 30
 Ile Val Ser Asn Arg Asn Arg Arg Gln Trp Leu Asp Ala Tyr Thr Gln
 35 40 45
 Ser Pro Glu Ile His Met Pro Phe Ser Asp Phe Leu Lys Ile Ile Gln
 50 55 60
 Lys Phe Gln Cys Ala Thr Val Leu Glu Lys Val Leu Met Leu Leu Phe
 65 70 75 80
 Val Ile Leu Ile Ile Val Gln Gln Val Ile Asp Thr Phe Cys Ser Arg
 85 90 95

<210> 10426

<211> 199
 <212> PRT
 <213> Enterobacter cloacae

<400> 10426
 Ser Arg Gly Ile Met Ala Arg Thr Tyr Val Lys Gln Thr Val Gln Asn
 1 5 10 15
 Asn Glu Gln Leu Phe Asp Ser Leu Val Ile Asn Ala Ile Asp Phe Leu
 20 25 30
 Glu Ser Ser Ile Asp Asp Leu Asn Ile Arg Pro Lys Asn Ser Ile Val
 35 40 45
 Asp Phe Tyr Thr Ala Ile Glu Leu Phe Leu Lys Ala Arg Leu Met Leu
 50 55 60
 Glu His Trp Thr Leu Ile Leu Asp Asp Pro Ser Lys Ala Asn Lys Gln
 65 70 75 80
 Lys Phe Ser Val Gly Asp Phe Asn Ser Val Tyr Phe Asn Asp Ala Val
 85 90 95
 Gln Arg Leu Lys Thr Ile Ile Gly Ile Lys Leu Asp Asp Asn Ile Leu
 100 105 110
 Asp Glu Phe Arg Thr Leu Gly Ala His Arg Asn Gln Ile Val His Phe
 115 120 125
 Ala His Thr Gly Tyr Ser Ser Thr Gln Ala Asn Lys Ala Gly Val Val
 130 135 140
 Ala Gln Gln Trp Ser Ser Trp His His Leu Tyr Asn Leu Leu Thr Val
 145 150 155 160
 Glu Trp Lys Asp Glu Phe Ile Lys Phe Lys Glu Glu Phe Glu Arg Val
 165 170 175
 His Lys Arg Met Leu Gln Gln Lys Asp Phe Leu Ser Thr Arg Phe Asn
 180 185 190
 Glu Leu Ser Lys Gly Asp
 195

<210> 10427
 <211> 151
 <212> PRT
 <213> Enterobacter cloacae

<400> 10427
 Val Lys Thr Asn Arg Phe Ile Val Ser Thr Val Asp Cys Ile Asn Glu
 1 5 10 15
 Phe Ala Ser Asp Val Pro Gln Ser Val Ser Leu Arg Ile Asp Thr Met
 20 25 30
 Leu Glu Gln Arg Ile Arg Lys Leu Ala Ala Tyr Val Lys Glu Asn Asp
 35 40 45
 Leu His Leu Thr Glu Phe Tyr Phe Tyr Asp Ala Asn Trp Ser Phe Cys
 50 55 60
 Gly Glu Asp Glu Ile Gln Glu Ile Lys Asp Met Asp Glu Tyr Lys His
 65 70 75 80
 Ser Asp Ser Ile Lys Gln Glu Ala Met Leu Arg Glu Val Met Pro Ser
 85 90 95
 Ala Arg Thr Glu Cys Pro Val Ile Arg Val Met Lys Asp Ser Phe Gln
 100 105 110
 Leu Ser Ala Leu Pro Arg His Cys Gly Asp Asp Met Thr Leu Asn Thr
 115 120 125
 Pro Phe Ile Pro Leu Ser Glu Leu Lys Thr Asn Asn Thr Ala Phe Ile
 130 135 140
 Thr Pro Pro Thr Tyr Asn
 145 150

<210> 10428
 <211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 10428

Cys Ser Ile Tyr Arg Gly Ser Gly Lys Tyr Met Phe Ile Glu Lys Ser
 1 5 10 15
 Asp Ser Phe Leu Glu Leu Ser Ser Glu Val Ile Phe Pro Glu Ala Ala
 20 25 30
 Asn Ala Ala Ile Leu Lys His Asp Lys Trp Ala Asp Val Trp Glu Thr
 35 40 45
 Leu Thr Thr Asp Ala Asp Leu Asn Tyr Thr Asp Glu Lys Glu Thr Val
 50 55 60
 Ser Leu Ser Ser Leu Val Met Ser Ala Thr Ser Ala Ile Tyr Gln Ala
 65 70 75 80
 Ile Thr Asp Gly Trp Thr Met Cys Val Gly Tyr Ser Gly Gly Lys Asp
 85 90 95
 Ser His Ser Leu Leu His Leu Phe Leu Met Ala Leu Ile Arg Ala Val
 100 105 110
 Arg Asn Gly Thr Asn Ile Ser Glu His His Phe Ile Gln Met Ser Asp
 115 120 125
 Thr Asn Tyr Tyr His Thr Val Thr Ala
 130 135

<210> 10429

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10429

Asp Ile Cys Gly Asp Leu Ile Ser Thr Leu Trp Thr Phe Ile Asp Ile
 1 5 10 15
 Leu Thr Glu Lys Phe Glu Trp Tyr Phe Thr Leu Trp Ala Lys Gln Thr
 20 25 30
 Ile Gly Glu Leu Leu Tyr Arg Ile Ala Leu Ala Ile Pro Lys Gln Glu
 35 40 45
 Ile His Lys Ser Ser Pro Pro Phe Met Ser Ile Ile Asn Phe Asn Arg
 50 55 60
 Leu Ser Thr Ala Pro Phe Asp Arg Thr
 65 70

<210> 10430

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 10430

Ala Lys Pro Leu Ala Arg Ser Leu Ser Val Arg Phe Ala Lys Thr Ser
 1 5 10 15
 Tyr Gln Tyr Leu Met Ala Val Gly Asn Leu Arg Asp Ala Tyr Ala Ile
 20 25 30
 Arg Pro Asn Arg Leu Glu Asn His Leu Ile Ala Glu Ile Ser His Pro
 35 40 45
 Leu Phe Ala Asp Asp Val Leu Leu Phe Phe Leu Phe Val Phe Ala Ile
 50 55 60
 Leu His His Leu Ile Gln Val Leu Ile Cys Glu
 65 70 75

<210> 10431

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 10431

His Asp Trp Phe Ile Gly Thr Ile Tyr Ser Pro Tyr Val Met Asn Ile
 1 5 10 15
 Phe Leu Pro Gln His Leu Asp Ile Ala Asn Pro Tyr Val Lys Ile Gln
 20 25 30
 Lys Lys Ser Glu Gln Asp Arg Glu Met Glu Ser Lys Asn Ser Ser Phe
 35 40 45
 Tyr Phe Asp Arg Val Asp Phe Leu Ser Lys Ser Ile Ser Tyr Ser Thr
 50 55 60
 Leu Met Ile Ser Cys Leu Ser Ile Val Gly Ile Phe Leu Asn Ser His
 65 70 75 80
 Trp Leu Tyr Gly Ile Ala Thr Leu Thr Phe Ile Ile Gln Leu Leu Thr
 85 90 95
 Trp Phe Ala Met His Phe Lys Thr Ser Tyr Ala Ala Lys Ala Ile Glu
 100 105 110
 Thr Lys Arg Leu Glu Met Leu Arg Gly Ile Ile Gly Glu Glu Asn Phe
 115 120 125
 Tyr Arg Glu Arg Leu Tyr Ile Asp Gly Asn Ala Glu Asn Lys Asn Gly
 130 135 140
 Phe Arg Ala Glu Arg Leu Ile Thr Leu Ile Gln Glu Asn Ala Tyr Trp
 145 150 155 160
 Asn Ser Ile Leu Tyr Ile Lys Ala Phe Gln Gln Lys Leu Phe Tyr Leu
 165 170 175
 Leu Leu Thr Ile Leu Leu Leu Ile Thr Ile Ile Ile Ile Met Tyr Thr
 180 185 190
 Thr Leu Thr Asp Asn Leu Asp Phe Gln Tyr Ser Arg Ala Ile Phe Gly
 195 200 205
 Ile Leu Val Ile Asn Asn Phe Tyr Asn Leu Phe Ser Glu Val Ser Gly
 210 215 220
 Phe Leu Asn Ala His Asn Glu Met Lys Lys Ile Asp Ser Phe Ile Glu
 225 230 235 240
 Ile Asn Asn Arg Lys Ala Pro Glu Tyr Leu Ser Tyr Ile Tyr Ser Lys
 245 250 255
 Tyr Glu His Glu Ile Phe Ile Ala Pro Ser Ile Asn Asn Ala Ile Tyr
 260 265 270
 Leu Lys His Ser Met Gln Ile Lys Gln Thr Trp Ala Gln Arg Leu Tyr
 275 280 285
 Asn Lys Asn Asn Phe Gln Ser Lys Gln Leu Ile Asp Ala Ile Thr Glu
 290 295 300
 Phe Thr Leu Val Arg Pro
 305 310

<210> 10432

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 10432

Pro Pro Leu Arg Ala Pro Leu Pro Leu Val Ala Gly Val Glu Asn Gln
 1 5 10 15
 Arg Leu Ile Ala His Pro Ser Gly Ser Gly Leu Phe Ala Asp Val Leu
 20 25 30
 Thr Leu Lys Thr His Ser Ser Gly Asp Glu Val Ile Ser Arg Tyr Thr
 35 40 45
 Val Gln Lys Asp Tyr Asn Pro Gln Glu Gly Gly Glu Asn Tyr Phe Leu
 50 55 60
 Ile Lys Ala Ala Cys Ala Ala Arg Asp Tyr Pro Ala Leu Ala Asn Asp
 65 70 75 80
 Ile Tyr Phe Thr Val Val Asn Trp Asp Leu Leu His Arg Ser Asn Leu
 85 90 95

Val Leu Ala Glu Leu Leu Lys Thr Val Asn Leu Ser Ala Lys Asn Ser
 100 105 110
 Ser Gly Phe Lys Val Pro Glu Ser Trp Gln Val Asn Pro Leu Thr Glu
 115 120 125
 Thr Arg Leu Val Val Glu His Ser Phe Asp Gly Ile Asn Tyr Gly Val
 130 135 140
 Ile Asn Leu Cys Phe Phe Ser Gln Glu Met Leu Phe Thr Ala Gln Asp
 145 150 155 160
 Val Phe Ser Val Ser Ile Lys Arg Phe His Asp Arg Glu Pro Ala Val
 165 170 175
 Thr Leu Lys Thr Glu Ala Leu Ala Thr Ile Pro Asn Glu Phe Asn Pro
 180 185 190
 Ser Leu Gly Lys Thr Leu Trp Thr Cys Arg Gly Glu Met Phe Ser Ala
 195 200 205
 Glu Glu Glu Met Arg Ala Val Tyr Gln Cys Tyr Ile Phe Ser Val Gly
 210 215 220
 Lys Val Trp Cys Tyr Ala Glu Leu Ile Gly Arg His Arg Asn Tyr His
 225 230 235 240
 Asp Tyr His Phe Glu Ala Asn Lys Arg Cys Leu Glu Ile Ile Leu Ser
 245 250 255
 Thr Phe His Ile Glu Asn Val
 260

<210> 10433

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 10433

Leu Thr Glu Ser Thr Ala Met Asn Glu Met Thr Met Phe Gly Tyr Val
 1 5 10 15
 Asp Arg Ala Leu Thr Leu Ala Gln Lys Arg Tyr Ala Asp Val Lys Asn
 20 25 30
 Arg Asp Pro Gln Ser Pro Leu Leu Gln Met Tyr Asp Ser Ile Val Gln
 35 40 45
 Gln Leu Leu Phe Leu Arg Asp Leu Ile Glu Gly Lys Glu Lys Asp Arg
 50 55 60
 Ala Lys Leu Trp Asp Met Thr Phe Gly Met Tyr Ala Gly Lys Glu Phe
 65 70 75 80
 Asp His Ser Asp Glu Leu Phe Phe Glu Arg Leu Ser Asp Ala Trp Phe
 85 90 95
 Ile Val Asp Gln Ile Arg Arg Gly Leu Lys Val Arg Leu Pro His Glu
 100 105 110
 Val Asp Thr Asn Tyr Asn Lys Lys Lys Gln Asn Leu Met Lys Lys Phe
 115 120 125
 Pro Asp Glu Phe
 130

<210> 10434

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 10434

Phe Ser Glu Val Ser Tyr Ser Thr His Gly Ile Arg Tyr Gln Glu His
 1 5 10 15
 Ile Asn Ala Ser Lys Asn Asp Ala Cys Asn Asn Ser Lys Ser Tyr Lys
 20 25 30
 Arg Pro Glu Ile Ser Gln Val Ile Gly Phe Met Ser Asp Thr Ala Tyr
 35 40 45
 Ser Ile Tyr Leu Lys Lys Trp Gln Ser Lys Tyr Tyr His Gln Ile Gln

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<210> 10435
<211> 135
<212> PRT
<213> Enterobacter cloacae
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<210> 10436
<211> 102
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10437
<211> 103
<212> PRT
<213> Enterobacter cloacae
```

<400> 10437
Pro Phe Arg Leu Asp Ala Ile Lys Leu Thr Thr Ser Val Tyr Asp Asp
1 5 10 15
Asp Ile Asp Thr Phe Gln Phe Ser Ser Leu Lys Ser Arg Leu Asn Ser

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<210> 10438
<211> 74
<212> PRT
<213> Enterobacter cloacae
```

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<210> 10439
<211> 187
<212> PRT
<213> Enterobacter cloacae
```

<210> 10440

<211> 70
 <212> PRT
 <213> Enterobacter cloacae

<400> 10440
 Ser Pro Asn Cys Leu Phe Ser Ile Asn Lys Gly Asn Leu Arg Asn Thr
 1 5 10 15
 Leu Arg Ile Ser Ala Ser Ile Ile Asn Lys Phe Asn Tyr His Ser Tyr
 20 25 30
 Cys Glu Trp Ile Arg Ser Lys Ser Val Glu Pro Thr Asn Leu Pro Ala
 35 40 45
 Lys Arg Leu Asn Glu Thr Ser Gly Glu Asp Lys Pro Gln Ile Phe Pro
 50 55 60
 Asp Val Phe Thr His
 65 70

<210> 10441
 <211> 67
 <212> PRT
 <213> Enterobacter cloacae

<400> 10441
 Asn Ser Gly Ser Gly Ser Ser Asn Glu Asp Leu Cys Pro Val Ile Ile
 1 5 10 15
 Val Thr Lys Tyr Arg Ile Lys Pro Ser Leu Ser Leu Ala Asn Asp Glu
 20 25 30
 Asn Leu Phe Tyr His Ser Lys Asn Gln Gly Gly Leu Ile Arg Pro Glu
 35 40 45
 Arg Phe Gln Val Thr Leu Ser Ser Gly Cys Thr Asn His Pro Pro Thr
 50 55 60
 Phe Thr
 65

<210> 10442
 <211> 118
 <212> PRT
 <213> Enterobacter cloacae

<400> 10442
 His Thr Pro Arg Asn Lys Met Asn Ile Glu Val Leu Arg Tyr Leu Glu
 1 5 10 15
 Ser Asp Gly Arg Glu His Val Glu Glu Lys Val Gln Pro Thr Lys Tyr
 20 25 30
 Asp Ser Glu Ala Thr Phe Ala Val Ile Lys Ile Leu Ile Ala Asn Asp
 35 40 45
 Gly Asn Ala Asp Ala Leu Ser Asp Lys Gln Lys Phe His Leu Lys Thr
 50 55 60
 Phe Val Glu Pro Leu Ile Asn Arg Val Pro Cys Ser Gly Ile Tyr Gly
 65 70 75 80
 Glu Asp Thr Cys Thr Gly Asp Gly Phe Val Asp Asp Glu Ser Leu Leu
 85 90 95
 Met Ser Tyr Gln Glu Asp Asp Phe Met Cys Gln His Cys Arg Tyr Asp
 100 105 110
 Ala Glu Asn Arg His
 115

<210> 10443
 <211> 133
 <212> PRT
 <213> Enterobacter cloacae

<400> 10443

Lys Gly Gly Gly Met Ser Arg Lys Ser Thr Tyr Lys Thr Lys Ala Glu
 1 5 10 15
 Asn Glu His Leu Ala Arg Val Ala Ala Leu Gly Cys Ile Val Cys Lys
 20 25 30
 Asn Ile Gly His Glu Asp Thr Pro Ala Glu Ile His His Cys Ser Lys
 35 40 45
 Gly Thr Gly Leu Ala Val Arg Ala Asp Asn Phe His Val Ile Pro Leu
 50 55 60
 Cys Ala Ile His His Arg Gln Gly Gly His Gly Val Ala Ile His Ala
 65 70 75 80
 Gly Arg Asn Thr Trp Val Gln Lys Tyr Gly Thr Glu Ala Glu Leu Leu
 85 90 95
 Ala Gln Val Asn Ala Glu Leu Gly Ile Ala Ala Trp His Ser Ile Gln
 100 105 110
 Ser Ile Ser Ser His Tyr Asn Leu Asn Gly Ala Ala Ser Leu Leu Lys
 115 120 125
 Glu Glu Asn Lys
 130

<210> 10444

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10444

Ala Asn Leu Asn Tyr Ser Asp Val Ser Asn Asp Asn Thr Leu Cys Lys
 1 5 10 15
 Tyr Thr Val Trp Trp Phe Leu Thr Gly Asp Ile Met His Ile Ser Asp
 20 25 30
 Asp Val Ile Pro Gly Ala Ala Gly His Thr Gly Pro Val Leu Val Tyr
 35 40 45
 Leu Glu Cys Gly Arg Ile Ser Gly Gly Phe Val Leu Gln Pro Asp Glu
 50 55 60
 Phe Val Thr Ser Leu Ala Ala Leu Asp Glu Ala Arg Gln His Ala Gly
 65 70 75 80
 Leu Thr Pro Cys Ser Phe Ser His Pro Val Ser Asp Leu
 85 90

<210> 10445

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 10445

Thr Val Asn Arg Ser Phe Cys Tyr Trp Tyr Leu Ser Glu Asn Asn Cys
 1 5 10 15
 Lys Glu Lys Glu Met Leu Gly Trp Tyr Cys Lys Lys Arg Ser Ala Asn
 20 25 30
 Arg Thr Arg Val Arg Arg Gly Gly Asp Val Asn Ala Ile Lys Trp Gly
 35 40 45
 Asp Ala Pro Pro Leu Leu Tyr Cys Phe Asn Ser Ser Leu Ile Phe Cys
 50 55 60
 Leu Ile Met Ile Arg Gln Cys Asn Lys Lys Lys Thr Val Thr Met Ala
 65 70 75 80
 Ser Gln Thr Gln Asn Lys Gln Ala
 85

<210> 10446

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 10446

```

Leu Pro Pro Pro Asn Gly Ala Leu Met Pro Pro Ser His Val Val Glu
1          5          10          15
Asp Lys Arg Met Lys Asn Ile Arg Thr Val Lys Lys Val Phe Ser Glu
          20          25          30
Met Leu Val Arg Phe Glu Asn Phe Gln Glu Ile Cys Arg Leu Tyr Val
          35          40          45
Asp Arg Lys Met Glu Leu Cys Phe Thr Thr Asp Ser Ala Asp Arg Ser
          50          55          60
Lys Leu Trp Glu Ile Gln Ser Arg Glu Asn Cys Ser Tyr Gly Glu Ala
65          70          75          80
Ile Glu Ile Leu Tyr Ala Gln Glu Val Ala Ala Gly Leu Ala Ala
          85          90          95

```

<210> 10447

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 10447

```

Arg His Ile Pro Ala Cys Arg Ser Ala Asp Thr Ser Ala Arg Ala Phe
1          5          10          15
Phe Gly His His Ile Thr Gly Gln Glu Ile Leu Ser Gly Arg Gly Val
          20          25          30
Thr Glu Gln Gln Leu Gly His Cys His Pro Leu Ala Asp Leu Thr Pro
          35          40          45
Leu Ile Ala Lys Leu Ala Phe Ser Pro Asp Ser Val Leu Pro Ser Trp
          50          55          60
Ala Gly Leu Leu Thr Leu Ala Pro Leu Ile Arg Asn Ala Pro Ala Asp
65          70          75          80
Lys Asp

```

<210> 10448

<211> 192

<212> PRT

<213> Enterobacter cloacae

<400> 10448

```

Arg Glu Tyr Tyr Arg Tyr Gly Asp Ala Arg Arg Phe Thr Ser Glu Ser
1          5          10          15
Ile Leu Met Asn Phe Gln Thr Asn Glu Val Phe Asn Lys Phe Ala Ala
          20          25          30
Val Ile Lys Ser Arg Ile Val Asn Glu Pro Ser Ser Cys Tyr Leu Leu
          35          40          45
His Asp Asn Glu Ile Asp Ile Thr Ile Leu Lys His Gly Ile Leu Glu
          50          55          60
Asn Asp Arg Asn Leu Leu Tyr Val Val Arg Pro Ser Gly Thr Cys Leu
65          70          75          80
Leu Arg Cys Asp Lys Tyr Phe Tyr Pro Lys Tyr Tyr Leu Arg Cys Arg
          85          90          95
Gly Asp Tyr Lys Ser Phe Ile Tyr Val His Leu Asp Leu His Ser Gly
          100          105          110
Glu Ala Lys Glu Ile Thr Trp Glu Gln Ala Asp Asp Met Leu Ser Ser
          115          120          125
Pro Gly Lys Pro Pro Leu Lys Gly Asn Leu Gly Arg Phe Glu Tyr Ile
          130          135          140
Lys Val Val Val Glu Asp Leu Arg Ile Arg Gly Tyr Ala Asp Tyr Leu
145          150          155          160

```

Pro Ala Tyr Asn Leu Asp Asp Leu Arg Arg Phe Ala Leu Gln Asp Asp
 165 170 175
 Arg Pro Ser Leu Val Arg Tyr Ile Asp Asn Val Met Ala Thr Val
 180 185 190

<210> 10449

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 10449

Trp Pro Thr Cys Ile Arg Glu Ala Ser Ile Thr Thr Gly Gly Cys Met
 1 5 10 15
 Lys Leu Ala Thr Asp Leu Val Lys Ala Ile Leu Ile Arg Asn Gly Val
 20 25 30
 Glu Pro Val Asn Ile Ser Glu Ser Ser Lys Leu Ser Leu Lys Gln Pro
 35 40 45
 Leu Thr Glu Leu Lys Phe Ser Leu Tyr Leu Arg Thr Glu His Leu Ser
 50 55 60
 His Phe Leu Pro Gly Tyr Val Tyr Ser Ile Lys Glu Cys Pro Leu Ser
 65 70 75 80
 Tyr Asp Ile Gly Ile Glu Ile Gln Lys Ile Phe Glu Ser Leu His Leu
 85 90 95
 Leu Asn Glu Glu Phe Glu Ser Leu Gly Phe Val Ser Val Trp Ile Glu
 100 105 110
 Met His Gln Ser Ile Phe Glu Gln Ser Arg Phe Lys Lys Ser Asn Phe
 115 120 125
 Thr Phe Arg Glu Glu Glu Val Glu Leu Ala Lys Gly Leu Val Cys Ser
 130 135 140
 His Asn Ser Gln Ile Ser Asn Ala Ala Tyr Phe Trp Leu Gln His Phe
 145 150 155 160
 Glu Glu Phe Met Ile Tyr Val Arg Asn Lys Leu Ile Asp Leu Phe Arg
 165 170 175
 Glu Ala Tyr Asp Leu Ile Leu Gly Met Gln Gln Val Phe Phe Ile Arg
 180 185 190
 Glu Lys Glu Glu Leu Leu Lys Thr Ile Ser Tyr Gly Asp Asp Leu Tyr
 195 200 205
 Glu Val Lys Leu Met Ala Ala Glu Leu Tyr Ser Ile Glu Gln Asn Leu
 210 215 220
 Lys Cys Ser Glu Ser Ile Ser Thr Lys Ser Gln Ala Ser Ala Tyr Ile
 225 230 235 240
 Asn Arg Ile Arg Glu Phe Val Arg Ser Gly Trp Arg Gln Gly Tyr Ile
 245 250 255
 Val Cys His His Lys Arg Ser Asn Gln Ile Ser Ser Leu Ser Leu Pro
 260 265 270
 Met Tyr Leu Lys Asp Thr Ser Gly Arg Ser Ala Arg Lys Arg Val Lys
 275 280 285
 Arg Leu Ile Ser Ser Thr Val Cys Gly Arg Asn Lys Asp Leu Gly Leu
 290 295 300
 Thr Asp Phe
 305

<210> 10450

<211> 451

<212> PRT

<213> Enterobacter cloacae

<400> 10450

Ser Ile Asn Val Glu Gly Pro Arg Ala Leu Phe Leu Lys Phe Cys Val
 1 5 10 15
 Val Gly Phe Ser Leu Ser Ser Ala Pro Gln Lys Ala Leu Arg Asn Ser

```
<210> 10451
<211> 115
<212> PRT
<213> Enterobacter cloacae
```

<400> 10451

```

Ser Leu Phe Leu Leu Arg Glu Asp His Met Lys Ile Ile Glu Lys Ile
1          5          10          15
Ile Asn Ala Phe Leu Val Val Gln His Lys Lys Ile Gln Val Lys Asn
20          25          30
Ile Thr Phe Leu Asp Asn Gly Gln Gly Met Phe Ser Gly Met Ser Phe
35          40          45
Asp Ala Asp Val Ser Leu Glu Phe Met Tyr Glu Ser Ala Lys Ala Tyr
50          55          60
Ser Ser Cys Phe Cys Asp Ile Pro Phe Pro Gly Phe Glu Asp Ala Asn
65          70          75          80
Leu Glu Glu Ile Thr Lys Phe Gln Leu Asp Ala Leu Lys Gln Arg Lys
85          90          95
Asn His Leu Val Pro Leu Leu Ser Ser Ser Gly Arg Ala Arg Ser Ile
100          105          110
Lys Thr Pro
115

```

<210> 10452

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 10452

```

Asp Lys Cys Ser Val Arg Lys Tyr Lys Leu Asn Leu Ser Ser Val Ser
1          5          10          15
Gly Cys Phe Lys Asp Asn Leu Asp Asp Ser Leu Ile Phe Thr Gly Ser
20          25          30
Thr Pro Phe Leu Ile Lys Ile Ala Phe Thr Arg Ser Val Ala Asn Phe
35          40          45
Ile Gln Pro Pro Val Val Ile Glu Ala Ser Leu Met Gln Val Gly His
50          55          60
Gln Gly Lys Tyr Val Asn Gln Leu Ala Thr Asn Gln Thr Val Ala Ile
65          70          75          80
Thr Leu Ser Met Tyr Leu Thr Arg Asp Gly Arg Ser Ser Cys Lys Ala
85          90          95
Lys Arg Arg Arg Ser Ser Arg Leu Tyr Ala Gly Arg
100          105

```

<210> 10453

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 10453

```

Arg Ser Ser Asp Ser Arg Leu Arg Glu Cys Lys Ile Gly Tyr Tyr Met
1          5          10          15
Asn Ile Asn Lys Asp Asp Glu Leu Leu Val Ile Val Lys Tyr Glu Gly
20          25          30
Arg Phe Tyr Trp Phe Val Ala Phe Lys Glu Met Trp Val Leu Asp Arg
35          40          45
Val Lys Trp Val Glu Asp Phe Val Lys Ser Gly Val Glu Ile Asn Leu
50          55          60
Gln Asn Thr His Lys Glu Arg Tyr Asp Ile Pro Val Val Asn Glu Glu
65          70          75          80
Asn Ala Gln Ile Phe Ile Asp Gly Leu Ile Asn Asp Gly Tyr Ser Tyr
85          90          95
Asp Lys Asp Asp Ile Ala Glu Glu Phe Tyr Lys Arg Leu Ser Gln Lys
100          105          110
Thr Ile Trp Trp Asp Ile Tyr Glu Leu Met Pro Asp Leu Phe Ile Asp
115          120          125

```

Phe Asp Asn Lys Arg Leu Tyr Ser Glu Tyr Val Glu Ser Met His Tyr
 130 135 140
 Gln Glu Tyr Val Pro Asp Gly Trp Gln Gly Glu Leu Val Asp Phe Cys
 145 150 155 160
 Ser Asn Gly Ser Leu Pro Gln Asp Glu Met Phe Trp Ile Lys Asn Glu
 165 170 175
 Thr Asp His Arg Ser Val Leu Ile Ala Lys Gly
 180 185

<210> 10454
 <211> 114
 <212> PRT
 <213> Enterobacter cloacae

<400> 10454
 Val Val Phe Asp Pro Leu Pro Glu Asp Ala Phe Gly Ala Asn Val Asn
 1 5 10 15
 Ile Lys Ile Asp Lys Val Phe Lys Leu Asp Gln Asn Ala Gln Arg Cys
 20 25 30
 Ile Val Val Pro Phe Phe Ile Thr Asp Lys Asn Lys Ile Gln Ile Ala
 35 40 45
 Ser Ala Thr Glu Lys Phe Asp Val Ser Ile Asn Val Thr Gly Lys Ile
 50 55 60
 Tyr Ser Leu Phe Tyr Glu Val Cys Glu Gly Asp Glu Ile Tyr Tyr Asn
 65 70 75 80
 Phe Thr Leu Val Pro Glu Lys Glu Ala Ile Thr Ala Lys Phe Leu Leu
 85 90 95
 Asp Asp Pro Trp Gly Gly Lys Lys Tyr Asn Pro Leu Lys Glu Gly Phe
 100 105 110
 Phe

<210> 10455
 <211> 66
 <212> PRT
 <213> Enterobacter cloacae

<400> 10455
 Thr Ala Thr Ser Thr Glu Pro Leu Pro Leu Glu Asp Ser Ala Glu Lys
 1 5 10 15
 Val Thr His Asn Arg Leu Thr Gln Leu Asn Val Ile Arg Trp His Tyr
 20 25 30
 Cys Tyr Asp Gly Glu His His Leu Thr Glu Val Ile Ser Gln Leu Arg
 35 40 45
 Asp Arg Asn Arg Pro Arg Thr Gln Val Ser Phe Arg Tyr Pro His Thr
 50 55 60
 Leu
 65

<210> 10456
 <211> 90
 <212> PRT
 <213> Enterobacter cloacae

<400> 10456
 Gln Tyr Thr Ile Asp Gln Gly Asn Glu Phe His Asp Asn Gln Lys Tyr
 1 5 10 15
 Ala Glu Ala Leu Glu Gln Asn Gln Lys Ala Trp Gln Ala Leu Pro Glu
 20 25 30
 Pro Lys Leu Glu Trp Glu Leu Ala Asn Trp Ile Ala Ala Cys Met Tyr
 35 40 45

Ser Ala Cys Phe Asp Leu Ala Asp Tyr Ala Glu Glu Asn Lys Trp Gly
 50 55 60
 Lys Thr Thr Leu Arg Thr Arg Gly Ser Asp Ile Asp Thr Ala Pro Leu
 65 70 75 80
 Ile Asp Leu Gly Met Val Cys Tyr Glu
 85 90

<210> 10457

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 10457

Arg Ile Lys Tyr Ile Phe Gly Lys Pro Phe Leu Asp Ile Ala Met Val
 1 5 10 15
 Asp Ser Thr Arg Gln Phe Val Phe Val Leu Ser Glu Thr Lys Pro Leu
 20 25 30
 Pro Ile Val Leu Thr Ile Phe Asn Ala Gln Gly Glu Lys Leu Phe Trp
 35 40 45
 Ser Thr Ser Pro Glu Ser Ala Ile Phe Tyr Tyr Leu Thr Leu Asn Gln
 50 55 60
 Ser Lys Glu Val Val Val Val Cys Asn Phe Thr Val Ile Gln Asn Gly
 65 70 75 80
 Trp His Asn Trp Phe Tyr Ser Trp Asp Met Lys Arg Asn Ala Leu Ser
 85 90 95
 Arg Ser Gly Pro Ser Tyr
 100

<210> 10458

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10458

Thr Cys Tyr Tyr Asn Ser Gly Val Lys Ala Met Thr Asp Glu Glu Leu
 1 5 10 15
 Arg Lys Asn Leu Val Phe Leu Ile Lys Lys Tyr Val Pro Glu Ser Gln
 20 25 30
 Gln Lys Ala Phe Tyr Asp Asp Ile Ser Lys Ser Thr Val Pro Val Lys
 35 40 45
 Gly Ile Leu Ala Asp Phe Asn Lys Ile Lys Thr Arg Thr Val Asp Glu
 50 55 60
 Val Asp Gly Asp Leu Ile Arg Asp Ile Tyr Phe Tyr Phe Cys
 65 70 75

<210> 10459

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 10459

Gln Ile Gln Gln Glu Gln Leu Asn Gln Glu Lys Lys Ala Lys Glu Ala
 1 5 10 15
 Lys Ala Glu Glu Thr Asp Arg Pro Ser Ser Ile Thr Ile Ser Thr Ala
 20 25 30
 Asn Ser Gly Glu Gly Lys Glu Asn Lys Glu Asn Ala Glu Thr Gly Ser
 35 40 45
 Gly Lys Glu Pro Glu His Thr Glu Arg Asn Lys Asp Thr Asn Lys Thr
 50 55 60
 Thr Lys Ala Gln Gly Lys Gly Lys Gly Lys Thr Asn Ser Ala Gly Tyr
 65 70 75 80

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<210> 10460
<211> 67
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10461
<211> 88
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

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<210> 10462
<211> 230
<212> PRT
<213> Enterobacter cloacae
```

```
<400> 10462
Arg Val Gly Pro Arg Ser His Pro Ala Gly Gly His Met Ser Glu Pro
1          5          10          15
```

Arg Ser Asn Ala Gln Met Phe Asp Ile Asp Met Ser Ala Leu Arg Glu
 20 25 30
 Leu Arg Glu Ala Val Gly Ala Thr Gln Gln Gln Met Leu Met Ala Tyr
 35 40 45
 Asn Arg Ala Leu Asn Arg Thr Ala Lys His Met His Arg Val Ser Val
 50 55 60
 Gly Met Met Ile Asp Ala Leu Ala Val Lys Lys Arg Lys Val Ala Asn
 65 70 75 80
 Lys Arg Ile Lys Pro Phe Val Lys Arg Arg Asn Phe Gly Lys Glu Ser
 85 90 95
 Thr Gly Glu Leu Ser Ser Ala Lys Leu Trp Tyr Gly Leu Asn Asp Phe
 100 105 110
 Arg Val His Asp Leu Arg Gly Ser Met Arg Lys Gln Arg Lys Gln Lys
 115 120 125
 Gln Lys Arg Asp Pro Glu Thr Gly Gln Phe Met Lys Thr Glu Lys Gly
 130 135 140
 Ala Arg Gly Ala Thr Phe Ile Pro Lys Ser Ala Gly Leu His Ser Met
 145 150 155 160
 Ser Trp Pro Asp Ser Phe Val Ala Lys Arg Tyr Ser Val Lys Ser Ile
 165 170 175
 Trp Ile Arg Arg Glu Gly Gly Gly Val Glu Glu Ala Arg Val Pro Val
 180 185 190
 His Glu Ala Leu Glu Asp Ala Ile Asp Asp Tyr Ile Phe Glu Asn Ile
 195 200 205
 Gly Ser Val Phe Met Arg Tyr Phe Glu Gln Asp Leu Arg Gly Arg Val
 210 215 220
 Ala Gly Asn Val Gln
 225 230

<210> 10463

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 10463

Ala Gly Phe Thr Gly Pro Arg Gly Gly Glu Arg Ser Met Thr Ala Thr
 1 5 10 15
 Ala Glu Ala Gly Met Asp Ala Phe Asp Glu Tyr Thr Asn Arg Val Arg
 20 25 30
 Ala Ala Val Leu Gln Ile Pro Phe Val Lys Thr Phe Gly Val Tyr Pro
 35 40 45
 Glu Ile Pro Glu Gly Phe Gln Thr Pro Ala Val Phe Phe Glu Ile Glu
 50 55 60
 Asn Trp Glu Pro Ser Ser Glu Val Ile Ala Gly Ser Ala Leu Thr Val
 65 70 75 80
 Ser Leu Asn Cys Ser Leu Tyr Val Leu Arg Glu Phe Ala Ala Asp Gln
 85 90 95
 Tyr Gly Gln Lys Ala Arg Asn Ala Ala Leu Tyr Ile Ser Ser Trp Ile
 100 105 110
 Asp Gly Arg Gly Phe Gly Pro Ala Thr Leu Pro Ala Thr Phe Gly Gly
 115 120 125
 Ser Glu Pro Ala Asp Trp Ile Lys Asn Gly Lys Ala Leu Gly Ser His
 130 135 140
 Ser Val Trp Cys Val Ser Phe Ser Gln Val Val Gly Val Gly Val Gly
 145 150 155 160
 Pro Phe Val Thr Pro Ala Asp Ala Pro Leu Leu Lys Glu Val Phe Val
 165 170 175
 Gly Leu Ala Pro Asp Ile Gly Lys Glu His Glu Ala Asp Tyr Val Arg
 180 185 190
 Val Phe Pro Arg
 195

<210> 10464
 <211> 66
 <212> PRT
 <213> Enterobacter cloacae

<400> 10464
 Gly Arg Arg Gly Lys Arg Ser His Pro Arg Gln Gln Ala Ala Tyr Lys
 1 5 10 15
 Leu Thr Val Leu Leu Ile Pro Phe Arg Phe Leu Ala Cys Arg Leu Val
 20 25 30
 Val Asp Ile Val Phe Asn Thr Ser Phe Lys Arg Asn Cys Leu Val Lys
 35 40 45
 Leu Arg Met Gly Val Leu Leu Leu Thr Gly Leu Leu Leu Ala Gly Cys
 50 55 60
 Asp
 65

<210> 10465
 <211> 104
 <212> PRT
 <213> Enterobacter cloacae

<400> 10465
 Asn Thr Leu His Gly Gln Leu Ala Asp Met Lys Val Lys Ile Ser Arg
 1 5 10 15
 Met Ser Phe Gly Cys Pro Leu Ala Asp Leu Arg Arg Ser Lys His Ser
 20 25 30
 Glu Pro Arg Tyr Gly Ala Gln Asn Asp Asn Arg Asn Asn Glu Phe Cys
 35 40 45
 Gln Asp Ala Val Ser His Gln Gly Asn Ala Ala Ile Ile Ile Pro Phe
 50 55 60
 Pro Asp His Asn Phe Lys Pro Gly Thr Gln Val Lys Pro Val Cys Cys
 65 70 75 80
 Ser Gln Lys Lys His Gln Asn Lys Gln Ser Arg Leu Gly Lys Gln Tyr
 85 90 95
 Pro Pro Pro Gly Thr Val Glu
 100

<210> 10466
 <211> 124
 <212> PRT
 <213> Enterobacter cloacae

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<400> 10466
 Asp Glu Ala Gln Val Arg Lys Arg Leu Met Pro Val Pro Val Asp Xaa
 1 5 10 15
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30
 Xaa Xaa Xaa Gly Leu Thr Asp Lys Asp Val Ala Gly Lys Tyr Val Asn
 35 40 45
 Ala Arg Gly Glu Gln Arg Met Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 65 70 75 80
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 85 90 95
 Xaa Xaa Xaa Pro Pro His Ser Cys Leu Ser Val Tyr Pro Cys Gln Ser
 100 105 110
 Ala Val Met Ala Ala Val Ser Ile Ala Thr Pro Asp
 115 120

<210> 10467

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 10467

Asn Pro Leu Arg Ile Lys Val Ala Val Phe Ser Met Arg Gly Glu Lys
 1 5 10 15
 Arg Val Asp Glu Lys Ile Gly Gly Leu Cys Gly Ile Ser Phe Ala Gly
 20 25 30
 Asn Phe Ala Arg Gln Arg Ala Gly Ser Ala Gly Ser Ala Ser Gln Arg
 35 40 45
 Leu Glu Arg Ser Asp Ala Arg Pro Ser Gly Ala Asp Pro Gly Ala Phe
 50 55 60
 Glu Arg Tyr Cys Arg Arg Arg Pro Ser Gly Val Gln Pro Arg Arg Pro
 65 70 75 80
 Gly Arg Ala Gly Asp
 85

<210> 10468

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 10468

Glu Asp Val Gly Trp Arg Val Thr Arg Ala Thr Lys Lys Asp Leu Ser
 1 5 10 15
 Trp Phe Asn Leu Ser Asn Tyr Asp Phe Ile Asn Asn Leu Thr Leu Ser
 20 25 30
 Glu Phe Ile Val Glu Leu Glu Trp Arg Asp Phe Leu Tyr Arg Asn Val
 35 40 45
 Asn Glu Asp Asp Leu Phe Phe Asp Glu Glu Tyr Glu Ile Lys Tyr Gln
 50 55 60
 Arg Ile Phe Gly Gly Asp Pro His Leu Asp Ile Pro Asn Glu Glu Glu
 65 70 75 80
 Lys Glu Ile Asp Glu Phe Val Arg Lys Val Asn Ser Glu Thr Pro Ser
 85 90 95
 Leu Leu Asn Met Tyr Gly Thr Leu Pro His Leu Pro Ser Asp Pro Arg
 100 105 110
 Val Ser Pro Ile Ser Phe Thr Glu Leu Ser Lys Tyr Gly
 115 120 125

<210> 10469

<211> 61

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (50)

<400> 10469

Pro Leu Arg Ile Arg Val Ser Ile Ser Ala Ile Gly Ser Cys Met Leu
 1 5 10 15
 Ile Cys Leu Tyr Ser Arg Asp Ser Ile Gly Asn Tyr Gln Leu Ala Phe
 20 25 30
 Phe Lys Pro Gly Thr Ser Pro Arg Met Ala Ala Ser Arg Ser Leu Ile
 35 40 45
 Arg Xaa Ser Pro Gly Gly Gly Lys Asp Lys Arg Lys Gly
 50 55 60

<210> 10470

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 10470

Asn Ser Leu Lys Gln Val Glu Tyr Ser Arg Tyr Ser Ile Ser Ala Ser
 1 5 10 15
 Pro His Pro Ser Trp Gln Ala Lys Lys Glu Trp Leu Ser Gln Gln Leu
 20 25 30
 Val Thr Ser Met Cys Leu Ser Ala Lys Cys Arg Lys Ala Asn Asn Thr
 35 40 45
 Ala Ala Ala Val Val Gln Thr Gly Tyr Ser Asp Leu Leu Cys Leu Leu
 50 55 60
 Asn Thr Asp Leu Asn Leu Ser Leu Lys Leu Ala Ala Ile Phe Arg Tyr
 65 70 75 80
 Gly His Leu Val Leu Asn Ser Leu Ile Ala Thr Ser Tyr Asn Val Glu
 85 90 95
 Ile His Cys Gly Tyr Tyr Asn Tyr Tyr Tyr
 100 105

<210> 10471

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10471

Leu Ala Phe Glu Val Tyr Thr Phe Lys Pro Gly Ala Thr Ala Glu Ser
 1 5 10 15
 Phe Tyr Leu Ser Leu Ala Gln Ala Arg Lys Cys Ser Gln Phe Cys Leu
 20 25 30
 Asn Asn Pro Phe Ser Ile Lys Tyr Asp Leu Arg His Asp Asp Ser Met
 35 40 45
 Thr Pro Pro Arg Tyr Arg Gly Gly Arg Lys Phe Val Asp
 50 55 60

<210> 10472

<211> 249

<212> PRT

<213> Enterobacter cloacae

<400> 10472

Arg Lys Gln Thr Ser Leu Asn His Asn Thr His Gly Asn Pro Val Trp
 1 5 10 15
 Val Ile His Leu Asn Gly Lys Glu Val Ile Met Ser Val Glu Leu Lys
 20 25 30
 Thr Phe Gly Gly Ala Tyr Phe Pro Lys Asp Lys Ala Leu Lys Lys Leu
 35 40 45
 Pro Asp Leu Lys Pro Leu Ala Ile Ala Val Asn Ala Leu Asn Lys Ser
 50 55 60
 Ile Ala Glu Ala Val Ile Phe Gly Lys Leu Ala Ala Glu His Pro Glu
 65 70 75 80

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<210> 10473
<211> 80
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10474
<211> 81
<212> PRT
<213> Enterobacter cloacae
```

<210> 10475
<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 10475

```

Thr Glu Ile Thr Phe Ser Ser Pro Asn Ile Leu Ala Thr Asn Lys Met
1          5          10          15
Val Val Leu Met Ile Val Leu Lys Ser Phe Leu Phe Phe Val Gly Ala
          20          25          30
Ala Ala Ala Cys Ala Leu Ile Val Leu Cys Leu Trp Val Asp Met Arg
          35          40          45
Phe Val Gly His Asp Ile Pro Glu Leu Ser Leu Thr Glu Ile Met Gln
          50          55          60
Glu Thr Val Leu Ala Ser Ile Val Phe Leu His Phe Arg Leu Ala Lys
65          70          75          80
Met Tyr Asp Ser Met Arg Tyr Cys Asn Ile Leu Val Gly Gly Phe Phe
          85          90          95
Leu Thr Met Leu Ile Arg Glu Leu Asp Ala Leu Phe Asp Leu Ile Ser
          100          105          110
His Gly Ser Trp Val Trp Phe Ala Leu Ile Thr Ala Val Leu Ala Leu
          115          120          125
Ile Arg Pro Val Met His Phe Arg Ala Thr Leu Glu Gln Leu Ala Lys
          130          135          140
Tyr Thr Gln Ser Pro Trp Tyr Gly Ile Leu Leu Ser Gly Leu Leu Ala
145          150          155          160
Val Leu Val Phe Ser Arg Leu Phe Gly Met Gln Val Leu Trp His Ala
          165          170          175
Ile Leu Glu His Gly Tyr Met Arg Val Val Lys Asn Ala Val Glu Glu
          180          185          190
Gly Ser Glu Ser Phe Gly Tyr Met Leu Cys Leu Ala Ala Ser Leu Gly
          195          200          205
Tyr Tyr Val Thr Phe Pro Ala His Ala Arg Gln Lys
          210          215          220

```

<210> 10476

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 10476

```

Asn Gln Arg Leu Ser Leu Asp Tyr Gln Gln Lys Glu Ala Gly Met Ser
1          5          10          15
Asp Phe Asp Thr Asp Lys Asn Ala Gln Tyr Ala Gly Asp Lys Ala Lys
          20          25          30
Asn Lys Leu Asp Glu Leu Ser Gly Ser Ala Gln Gln Phe Gly Glu
          35          40          45
Phe Val Asp Ser Pro Lys His Gln Val Lys Gly Ala Ala Lys Asn Tyr
          50          55          60
Ala Val Phe Thr Tyr Glu Ala Asp Arg Ser Ala Leu Arg Cys Ala Gly
65          70          75          80
Gln Gly Gly

```

<210> 10477

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 10477

```

Ile Cys Arg His Arg Leu Arg Arg Phe Glu Ser Phe Pro His His His
1          5          10          15
Phe Leu Ala Ala Ser Thr Pro Pro Glu Leu Val Gly Lys Ile Asp Gln

```

```
<210> 10478
<211> 65
<212> PRT
<213> Enterobacter cloacae
```

65

```
<210> 10479
<211> 121
<212> PRT
<213> Enterobacter cloacae
```

<400>	10479														
Val	Ala	Asp	Pro	Leu	Tyr	Lys	Arg	Tyr	Ala	Val	Thr	Pro	Arg	Arg	Cys
1				5					10					15	
Ser	His	Cys	Leu	Tyr	Val	His	Gly	Phe	Arg	Phe	Phe	Phe	Thr	Pro	Leu
			20					25					30		
Ala	Gly	Val	Leu	Phe	Ala	Phe	Pro	Ser	Arg	Tyr	Trp	Phe	Thr	Ile	Gly
			35				40					45			
Gln	Ser	Gly	Val	Phe	Ser	Leu	Gly	Gly	Trp	Ser	Pro	His	Ile	Gln	Thr
	50					55					60				
Gly	Tyr	His	Val	Ser	Arg	Pro	Thr	Leu	Arg	Val	His	Ser	Met	Cys	Ile
65					70					75				80	
Phe	Val	Tyr	Gly	Thr	Ile	Thr	Leu	Tyr	Arg	Arg	Thr	Phe	Gln	Thr	Val
				85					90					95	
Pro	Leu	Thr	His	Lys	Leu	Ile	Gln	Thr	Pro	Gly	Cys	Ser	Pro	Phe	Ala
			100					105					110		
Arg	Arg	Tyr	Trp	Gly	Asn	Leu	Gly								
		115					120								

```
<210> 10480
<211> 65
<212> PRT
<213> Enterobacter cloacae
```

```

<400> 10480
Ala Ala Arg Tyr Leu Pro Ala Pro Trp Ala Glu Asp Pro Leu Asn Gln
1      5      10      15
Pro Tyr Thr Thr Asp Ile Met Gly Thr Ala Thr Ala Pro Asp Pro Glu
20      25      30
Thr Leu Thr Leu Asp Val Tyr Tyr Tyr Lys Thr Asn Ala Ala Ala Ala

```

35 40 45
 Thr Val Gly Glu Leu Ser Ser Asn Val Thr Tyr Thr Ile Ser Tyr Leu
 50 55 60

65

<210> 10481

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 10481

Cys Arg Thr Gly Lys Ser Ala Gln Thr Ser Gly Val Ile Met Glu Asp
 1 5 10 15
 Leu Glu Thr Thr Ile Met Glu Leu Leu Val Asn Ala Gly Ala Ala Arg
 20 25 30
 Ser Ala Ala Gln Thr Ala Lys Gln Lys Ala Arg Lys Gly Asp Lys Asp
 35 40 45
 Glu Ala Glu Lys Ala Lys Glu Ser Arg Glu Lys Glu Lys Gln Val
 50 55 60
 Pro Asp Lys Arg Ser Arg Arg Ser Lys Ser Val Lys Thr Lys Gly Gln
 65 70 75 80
 Glu Asn Ser Arg Lys Thr Arg Ser Pro Ile Ile Leu Arg Thr Thr Arg
 85 90 95
 Arg Thr Arg Arg Lys Asn Arg Ile Arg Arg Ala Thr Arg Lys Ser Lys
 100 105 110
 Ile Asp Ala Ser Arg Arg Lys Thr Glu Asn Ala Asp Ile Lys Lys Pro
 115 120 125
 Ala Glu Ala Gly Phe Tyr Ile Tyr Ala His Gln Thr Lys Arg Ser
 130 135 140

<210> 10482

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10482

Glu Ser Asp Val Glu Lys Glu Gln Leu Val Glu Ile Ala Asn Thr Glu
 1 5 10 15
 Met Pro Phe Gly Lys Tyr Lys Gly Arg Arg Leu Ile Asp Leu Pro Glu
 20 25 30
 Glu Tyr Leu Leu Trp Phe Ala Arg Lys Asp Glu Phe Pro Ala Gly Arg
 35 40 45
 Leu Gly Glu Leu Met Ala Ile Thr Leu Leu Ile Lys Thr Glu Gly Leu
 50 55 60
 Thr Gln Leu Val Gln Pro Leu Lys Arg Pro
 65 70 75

<210> 10483

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 10483

His Ile Pro Ile Ala Ala Arg Pro Leu Val Leu Leu Lys Leu Thr Pro
 1 5 10 15
 Ser Leu Pro Ile Pro Leu Phe Tyr Gly Glu Lys Asp Leu Asn Met Thr
 20 25 30
 Thr Leu Lys Pro Val Ser Leu Ser Ala Met Glu Ile Gly Ser Val Asp
 35 40 45
 Asn Ser Ser Gly Gly Asn Asp Ile Ala Ser Gln Ile Thr Arg Leu Thr

50 55 60
 Lys Gln Ile Thr Lys Val Thr Gln Gln Leu Lys Glu Val Ala Met Gly
 65 70 75 80
 Asp Ala Thr Ala Glu Glu Lys Gln Lys Gln Gln Glu Leu Leu Glu Ser
 85 90 95
 Gln Leu Ala Met Leu Gln Ala Gln Leu Ala Gln Leu Gln Arg Gln Gln
 100 105 110
 Ala Glu Glu Ala Met Pro Lys Gln Glu Lys Gly Glu Ala Val Ala Glu
 115 120 125
 Gly Ile Asn Lys Pro Ser Ala Glu His Gln Ile Asn Ile Tyr Val
 130 135 140

<210> 10484

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 10484

Trp Lys Ile Ser Pro Ser His Gly Ile Trp Arg Gly Glu Leu Ile Arg
 1 5 10 15
 Asn Asn Tyr Tyr Pro Gln Ala Ala Arg Gln Gly Gly Glu Tyr Leu Ala
 20 25 30
 His Thr Leu Ile His Thr Ser Asp Phe Tyr Leu His Pro His Glu Lys
 35 40 45
 Lys Ala Gln Val Ala Lys Phe Ile Asn Arg Phe Ala Phe His Arg Arg
 50 55 60
 Leu Trp Arg Ala Arg
 65 70

<210> 10485

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10485

Tyr Met Ile Val Pro Ser Gly Ile Ser Leu Leu Thr Ala Ile Asp Asp
 1 5 10 15
 Ile Leu Ser Gly Ile Leu Thr Leu Leu Ala Val Leu Asn Thr Asp Ala
 20 25 30
 Leu Ser Ser Glu His Val Ser Ala Ile Ala Ala Phe Glu Lys Ile Ser
 35 40 45
 Arg Gln Lys Asn Val Ala Thr Leu Ile His Pro Glu Ile Phe Ile Ser
 50 55 60
 Pro Ser
 65

<210> 10486

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 10486

Arg Pro Val Met Ser Lys Ile Pro Gly Thr Asp Ile Gln Pro Ala Val
 1 5 10 15
 Gln Arg Arg Val Glu Val Val Ile Phe Pro Ala Ala Ile Phe Ala Ala
 20 25 30
 Ile Thr Ile His Val Ile Pro Gln His Gln Arg Gly Asp Pro Gly Ile
 35 40 45
 Pro Glu His Arg Val Tyr Ala Ala Ala Cys Asp Met Leu Gln His Gly
 50 55 60
 Leu Gly Asp Thr Asp Ile Lys Ala Leu Ser Ala Pro Val Lys Phe Gln

```
<210> 10487
<211> 146
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10488
<211> 83
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10489
<211> 150
<212> PRT
<213> Enterobacter cloacae
```

```
<400> 10489
Thr Leu Lys Lys Gly Gly Leu Cys Glu Arg Lys Asp Arg Asn Lys Lys
1          5          10          15
Val Leu Phe Ile Arg Val Tyr Val Asn Ser Asn Leu His Gly Val Ile
```

	20		25		30										
Met	Glu	Leu	Ser	Leu	Asn	Ile	Gly	Leu	Ser	Glu	Lys	Lys	Ser	Asn	Thr
	35						40					45			
Ala	Ala	Leu	Phe	Lys	Thr	Lys	Ser	Ala	Lys	Val	Ile	Leu	Phe	Val	Leu
	50					55					60				
Leu	Thr	Val	Leu	Phe	Cys	Gly	Leu	Ala	Tyr	Ala	Gly	Ser	Asp	Asp	Gly
65					70					75					80
Ala	Leu	Gly	Asp	Ile	Trp	Ser	Tyr	Met	Ser	Glu	Ser	Met	Thr	Gly	Ala
			85						90					95	
Pro	Gly	Lys	Ile	Leu	Ala	Ala	Ala	Met	Leu	Ile	Ser	Ser	Val	Tyr	Phe
		100						105					110		
Ser	Val	Leu	Lys	Pro	Asn	Pro	Gly	Leu	Ala	Leu	Val	Ser	Leu	Phe	Met
		115					120					125			
Met	Leu	Val	Met	Ala	Asn	Gly	Glu	Lys	Ile	Ile	Ser	Thr	Phe	Met	Asp
	130					135						140			
Ala	Gly	Val	Pro	Leu											
145						150									

<210> 10490

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 10490

Phe	Val	Lys	Gln	Cys	Gly	Asn	Leu	Asn	Leu	Ser	Asp	Ile	Ser	Ile	Ile
1			5						10					15	
Lys	Lys	Leu	Arg	Lys	Val	Ala	Thr	Tyr	Asn	Phe	Arg	Ser	Ser	Lys	Glu
		20						25				30			
Ala	Leu	Ser	Trp	Pro	Leu	Pro	Asn	Lys	Val	Glu	Ser	Tyr	Leu	Val	Cys
	35						40					45			
Thr	Gly	Tyr	Asn	Leu	Leu	Lys	Asn	Lys	Leu	Phe	Ile	Ser	Ala	Met	Leu
	50					55					60				
Ser	Ala	Ser	Phe	Thr	Thr	Gly	Leu	Thr	Ser	Arg	Leu	Asn	Val	Gln	Lys
65					70					75				80	
Ser	Asn	Phe	Ser	Asn	Glu	Leu	Leu	Thr	Ile	His	Leu	Tyr	Ala	Phe	Leu
			85						90					95	
Thr	Gln	Ala	Tyr	Met	Leu	Ala	His	Ser	Leu	Asn	Ala	Val	Glu	Gln	Asp
		100						105					110		
Gly	Phe	Val	Arg	Thr	Leu	Phe	Thr								
		115					120								

<210> 10491

<211> 119

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (68)

<400> 10491

Ser	Cys	Met	Arg	Gly	Phe	Ile	Pro	Leu	Ser	Gly	Phe	Leu	Met	Ser	Lys
1				5					10					15	
Gln	Asn	Asp	Val	Pro	Gln	His	Thr	Tyr	Arg	Phe	Pro	Phe	Arg	Ile	Asn
		20						25				30			
Met	Pro	Leu	Leu	Ile	Leu	Phe	Trp	Asp	Ala	Lys	Lys	Leu	Gly	Leu	Ala
	35						40					45			
Phe	Ile	Leu	Val	Ala	Phe	Gly	Asn	Ile	Phe	Glu	Cys	Phe	Gly	Phe	Ser
	50					55					60				
Val	Val	Ala	Xaa	Val	Val	Tyr	Trp	Ile	Ala	Tyr	Asn	Lys	Ala	Ala	Glu
65						70				75					80

Ser Gly Ile Arg Gly Leu Leu Lys His Lys Leu Trp Trp Leu Gly Phe
 85 90 95
 Leu Pro Ser Lys Ala Val Phe Ser Ser Arg Tyr Phe Asn Asp Pro Phe
 100 105 110
 Ile Arg Asp Leu Tyr Ser
 115

<210> 10492
 <211> 179
 <212> PRT
 <213> Enterobacter cloacae

<400> 10492
 Val Tyr Leu Leu Asp Val Ser Ala Leu Phe Gly Lys Phe Glu Val His
 1 5 10 15
 Val Ser Cys Ser Lys Gln Glu Glu Asp Met Asn Asn Ser Lys His Thr
 20 25 30
 Val Ile Glu Val Asp Thr Asn Leu Val Glu Ile Glu Lys Gly Phe Asn
 35 40 45
 Pro Arg Glu Ala Val Ile Gly Asp Leu Cys Tyr Glu Gln Glu Pro Val
 50 55 60
 Lys Ser Met Ile Val Ser Ile Lys Gln Ala Phe Lys Glu Gly Arg Gln
 65 70 75 80
 Val Asp Met Ile Lys Val Val Lys Arg Lys Gly Lys Tyr Leu Val Arg
 85 90 95
 Gln Gly His Thr Arg Phe His Gly Leu Lys Leu Ala Ile Ser Glu Gly
 100 105 110
 Ala Asn Ile Pro Lys Leu Ser Val Ile Leu Ile Asp Tyr Lys Asn Glu
 115 120 125
 Ile Glu Glu Tyr Leu Glu Asn Leu Asp Gly Asn Arg Ser Asn Gly Leu
 130 135 140
 Asn Pro Val Gly Gln Ala His Ala Leu Ala His Ala Val Ser Leu Gly
 145 150 155 160
 Tyr Ser Val Glu Glu Leu Gly Lys Val Arg Ile Ser Gly Glu Ile Leu
 165 170 175
 Leu Gly

<210> 10493
 <211> 66
 <212> PRT
 <213> Enterobacter cloacae

<400> 10493
 Leu Asn Ser Ser Val Ile Arg Phe Ser Phe Gly Lys Leu Phe Ile Thr
 1 5 10 15
 Tyr Ser Cys Lys Cys Phe Leu Arg Ile Tyr Leu Asn Ala Ile Ser Ile
 20 25 30
 Pro Val Asn Ala Phe Leu Ile His Ser Asn Ala Phe Arg Met His Pro
 35 40 45
 Asn Ala Gly Ser Phe His Lys Val Thr Ile Ile Asn Glu Leu Lys Met
 50 55 60
 Pro
 65

<210> 10494
 <211> 72
 <212> PRT
 <213> Enterobacter cloacae

<400> 10494

His Val Ser Glu Ser Pro Ala Lys Cys Lys Arg Phe Ala Leu Lys Arg
 1 5 10 15
 Met Arg Asn Leu Arg Glu Ile Ala Gly Ala Lys Lys Leu Lys Ile Leu
 20 25 30
 Lys Phe Lys Glu Leu Leu Met Ser Asn Tyr Leu Lys Ile Arg Phe Cys
 35 40 45
 Thr Phe Ser Leu Leu Val Ser Leu Lys Glu Gln Gly Lys Val Cys Ala
 50 55 60
 Thr Ala Arg Met Pro Thr Glu
 65 70

<210> 10495

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 10495

Ile Arg Gly Ser Tyr Met Val Tyr Glu Asn Glu Leu Trp His Ser Phe
 1 5 10 15
 Leu Leu Arg Ser Gln Ile Met Tyr Asn Leu Ser Asn Cys Arg Asn Ile
 20 25 30
 Ile Ser Lys His Gly Ala Leu Arg Tyr Asp Ala Phe Pro Arg Phe Glu
 35 40 45
 Leu Ile Asp Met Tyr Lys Leu His Ser Leu Gln Asp Ile Tyr Asp Ile
 50 55 60
 Leu Ala Thr Arg Asn Gly Tyr Ile Leu Thr Ser Asn Ile Val Ser Leu
 65 70 75 80
 Ser Ser Gly Val Tyr Gly Tyr Phe Asn Ala Ile Glu Asp Ala Cys Arg
 85 90 95
 Lys Asn Phe His Ile Thr Asn Ser Tyr Pro Leu Val Asn Ile Ser Asn
 100 105 110
 Ile Arg Tyr Cys His Lys Cys Ile Val Glu Asp Ile His Ser Lys Gly
 115 120 125
 Ile Gly Tyr Leu Arg His Arg Trp Leu Phe Glu Ser Lys Cys Ala Val
 130 135 140
 His Ser Thr Ser Leu Tyr Glu Val Cys Phe Asp Asn Tyr Leu Asn Ala
 145 150 155 160
 Val Lys Gly Leu Ser Asp Leu Ile Ile Ser Gly Ile Asn Pro His Gly
 165 170 175
 Tyr Cys Ser Leu Val Val Asp Val Ser Asn Pro Phe Lys Asn Pro Val
 180 185 190
 Tyr Ile Leu Pro Cys Ala Arg Asn Lys Ile Leu Lys Trp Ile Ser Asp
 195 200 205
 Asn Lys Asn Met Leu Ile Tyr Phe Leu Phe Asp Leu Phe Lys Cys Lys
 210 215 220
 Ser His Ser Ser Leu Ser Lys Val Ile Glu Val Lys Ile Met His Asp
 225 230 235 240
 Arg Tyr Ile Ser Ala Val Phe Lys Met Leu Ser Glu Val Asn Phe Cys
 245 250 255
 Asn Phe Asn Ser Phe Ile Ser Asp Ile Phe Glu Asp Val Ser Tyr Ala
 260 265 270
 Ser Ile Gly Leu Asp Asp Tyr Ser Val Asn Val His Phe Leu Arg Leu
 275 280 285
 Arg Ala Ala Asp Cys Lys Phe Cys Gln Leu Asn Gly Lys Tyr Phe Cys
 290 295 300
 Ser Leu Tyr Asn Val Lys Leu Leu Arg
 305 310

<210> 10496

<211> 557

<212> PRT

<213> Enterobacter cloacae

<400> 10496

```

Met Asn Ala Asp Lys Asn Asp Met Asn Cys Phe Ser Leu Arg Glu Gly
1      5      10      15
Asp Gly Arg Phe Glu Ile Ala Cys Glu Phe Asp Asp Leu Pro Asp Phe
20      25      30
Ile Met Ile Asp Asp Arg Val Gln Thr Thr Leu Ala Ser Glu His Leu
35      40      45
Leu Asn Glu Asp Gly Asn Phe Glu Ile Val Lys Thr Phe Lys Ala Thr
50      55      60
Thr Ser Gly Lys Pro Glu Gln Thr Cys Ile Arg Cys Ile His Pro Asp
65      70      75      80
Glu Glu Pro Leu Arg Asn Leu Leu Gly Met Lys Ile Ser Glu Leu Lys
85      90      95
Ala Val Gly Lys Glu Val Glu Lys Asn Val Ala Asp Lys Arg Thr Ala
100     105     110
Ser Leu Trp Arg Gln Ala Ile Arg Glu Ala Ala Ala Pro Tyr Thr Cys
115     120     125
Ser Glu Ile Met Leu Asp Val Asp Lys Glu Phe Gly Thr Asp Thr Lys
130     135     140
Ser Leu Trp Gly Lys Ile Leu Asp Leu Leu Pro Thr Tyr Ala Ile Phe
145     150     155     160
Lys Ala Asp Arg Glu Ser Ser Asp Gly Asp Ser Glu Ala Lys Asn Pro
165     170     175
Leu Gln Gln Ala Val Lys Asp Ala Gln Ala Ala Leu Gln Asp Lys Ile
180     185     190
Thr Ala Leu Glu Asn Glu Ile Gln Asp Ser Val Leu Asp Val Ala Gln
195     200     205
Arg Thr Leu Asp Lys Leu Arg Glu Met Ala Pro Glu Leu Ala Ser Glu
210     215     220
Leu Thr Pro Arg Phe Lys Glu Lys Pro Lys Trp Thr Phe Asn Phe Thr
225     230     235     240
Leu Asp Gly Glu Asn Gly Ile Pro Ile Asn Lys Arg Gly Ser Gly Ile
245     250     255
Arg Arg Leu Ile Leu Leu Asn Phe Phe Arg Ala Glu Ala Glu Lys Asn
260     265     270
Val Ala Gly Thr Pro Arg Asn Val Ile Tyr Ala Ile Glu Glu Pro Glu
275     280     285
Thr Ser Gln His Pro Asn Tyr Gln Met Met Leu Met Lys Ala Leu Leu
290     295     300
Ala Leu Ala Gly Gln Pro His Arg Gln Ile Ile Val Thr Thr His Val
305     310     315     320
Pro Ala Leu Ala Gly Leu Ile Pro Val Glu Gly Val Arg Tyr Val Thr
325     330     335
Arg Asn Glu Ala Gly Glu Pro Val Val Lys Met Pro Asp Asp Ala Val
340     345     350
Leu Lys Glu Ala Thr Glu Ser Leu Gly Val Leu Pro Glu Thr Gly Met
355     360     365
Glu Arg Ala Gln Gly Ile Val Leu Val Glu Gly Lys Ser Asp Val Thr
370     375     380
Phe Leu Arg His Ala Ala Ser Ser Leu Lys Gln Ser Gly Ala Leu Pro
385     390     395     400
Ala Ser Leu Glu Asp Val Lys Ile Val Pro Val Leu Ile Gly Gly Cys
405     410     415
Gly Ser Val Lys His Trp Val Thr Leu Asn Leu Ala Lys Asp Leu Gly
420     425     430
Leu Pro Trp Cys Val Phe Leu Asp Ser Asp Ile Gly Gly Asp Pro Ala
435     440     445
Gln Val Leu Ser Ile Gln Lys Arg Lys Lys Glu Val Glu Glu Ala Gly
450     455     460

```

Lys Val Phe Phe Ala Thr Arg Lys Arg Glu Ile Glu Asn Tyr Leu Cys
 465 470 475 480
 Pro Asp Leu Ile Glu Ile Thr Gly Val Ala Val Thr Phe Thr Asp
 485 490 495
 Thr Cys Asp Ala Lys Lys Ile Ile Gly Arg Ala Val Gly Met Lys Pro
 500 505 510
 Asp Asn Val Leu Asp Lys Phe Trp Pro Gln Met Thr Ser Glu Arg Ile
 515 520 525
 Ile Ser Arg Ser Thr Tyr His Asp Gly Thr Gln Glu Arg Ser Glu Leu
 530 535 540
 Val Glu Ile Leu Ser Asp Ile Val Ser Met Thr Arg
 545 550 555

<210> 10497

<211> 183

<212> PRT

<213> Enterobacter cloacae

<400> 10497

Gln Ile Ile Asp Arg Pro Ser Glu His Leu Trp Ile Ser Leu Asn Gln
 1 5 10 15
 Ala Gly His Pro Val Lys Phe Glu Arg Asp Ile Ala Phe Phe Gly Pro
 20 25 30
 Gly Phe Glu Lys Leu Glu Asp Phe His Asp Phe Arg Ser Glu Val Lys
 35 40 45
 His Asp Pro Val Arg Tyr Gln Leu Ile Ile Ile Cys Leu Cys Gln Glu
 50 55 60
 Gln His Ile Ala Asp His Phe Gly His Pro Val Ile Leu Phe Lys Thr
 65 70 75 80
 Gly Ile Glu Asp Ile Leu Lys Phe Pro Leu Cys Ser Ile Leu Thr Gln
 85 90 95
 Cys Asp Ile Ser Leu Arg His Gln Ile Gly Asp Gly Arg Ser Asp Leu
 100 105 110
 Met Arg Asp Ile Gly Arg Glu Ile Gly Leu Ala Gly Lys Asp Ile Leu
 115 120 125
 Asn Leu Ser Asn His Met Ile Glu Arg Asp Asn Gln Leu Leu Gln Leu
 130 135 140
 Asn Gly Asn Ala Cys Pro Phe Gln Ser Arg Ile Lys Ile Leu Gly Gly
 145 150 155 160
 Asp Val Leu Asn Gly Ile Val Asp Ile Thr Lys Gly Gln Val Pro Leu
 165 170 175
 Asp Gly Gln Arg Phe Glu
 180

<210> 10498

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10498

Thr Gln Lys Lys Thr Val Pro Gln Phe Ile Phe Val Asn His Ile Thr
 1 5 10 15
 Pro Ser Tyr Leu Ile Ser Ser Ile Phe Leu Arg Ser Ile Ile Val Ile
 20 25 30
 Gly Ser Leu Ser Leu Tyr Phe Lys Ser Gln Pro Cys Pro Pro Ser Lys
 35 40 45
 Ala Ser Arg Leu Val Ser Asp Ile Glu Tyr Cys Pro
 50 55 60

<210> 10499

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 10499

```

Phe Pro Ala Val Met Leu Thr His Tyr Gly Asp Arg Glu Trp Leu Arg
1          5          10          15
Pro Val Leu Asp Lys Val Asn Thr Ser Thr Ala Val Pro Gly Ala Glu
          20          25          30
Ala Gln Thr Pro Ala Ala Ile Ser Ser Pro Pro Asn Ser Leu Leu His
          35          40          45
Leu Asn Asn Leu Phe Leu Pro Thr Cys Ile Thr Val Arg Val Ala Val
          50          55          60
Val Tyr Arg His Pro Val Met Gln Ala Met Ala Tyr Lys Glu Ala Asn
65          70          75          80
Pro Leu Met Phe Val Arg Ile Ile Val Pro Met Leu Ala Arg Val Met
          85          90          95
Asn Thr Asn Asn Ser Arg Cys Tyr Pro Trp Glu Asp Arg Lys Gln
          100          105          110

```

<210> 10500

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 10500

```

Val Asn Ile Thr Ala Gly Asn Tyr Arg Cys Leu Leu Leu Ser Thr Ser
1          5          10          15
Gly Ile Ile Ile Asn Ala Thr Phe Ile Leu Pro Glu Cys Asn Phe Ser
          20          25          30
Asp Cys Pro Tyr Met Glu Asn Gln Ser Tyr Ile Glu Ile Leu Gln Lys
          35          40          45
Tyr Asn Asn Lys Ile Val Trp Lys Lys Asn Asn Val Pro Ala Asn Cys
          50          55          60
Arg Gly Asp Asp Tyr Gln Ala Ser Met Arg Pro
65          70          75

```

<210> 10501

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 10501

```

Val Val Ile Leu Arg Gln Phe Cys Pro Ala Ala Thr Ala Phe Phe Ala
1          5          10          15
Ile Arg Gln Ser Ile Met Gln Arg Lys Leu Ser Ile Lys Pro Gln Leu
          20          25          30
Leu Ile Lys Arg Ile Glu Leu Phe Ala Gly Asn Ile Asp Lys Asn Lys
          35          40          45
Phe Ser Ile Ser Pro Phe Lys Gly Ser Asp Leu Lys Ile Phe Glu Pro
          50          55          60
Ser Ile Ile Asn Thr Gly Ser Gly Ser Ala Leu Asn Ile Asn Ile Lys
65          70          75          80
Trp Asp Tyr Pro Tyr Glu Leu Lys Met Arg Gln Leu Asn Glu Cys Tyr
          85          90          95
Lys Ser Ile Asn Lys Glu Ala Lys Leu Glu His Glu Ile Asn Asp Lys
          100          105          110
Leu Gly Val Arg Cys Leu Glu Ile Asn Thr Gly Glu Ile Val Leu Tyr
          115          120          125
Pro Leu Thr Asn Thr Asp Leu Ile Asp Phe Met Ala Pro Ile Asn Val
          130          135          140
Glu Lys Lys Glu Tyr Lys Thr Arg Ala Pro Phe Ser Ile Phe Asn Ile

```

```

145          150          155          160
Met Ile Asn Asp Ala Met Thr Leu Leu His Ile Glu Asn Lys Leu Thr
          165          170          175
Lys Ala Val Glu Gly Pro Ser Leu Asn Ile Ser Tyr Thr Asp Val Glu
          180          185          190
Gly Lys Lys Tyr Ser Leu Gln Tyr Lys Ser Tyr Phe Ile Val Lys Glu
          195          200          205
Ile Thr Ala Leu Leu Tyr Thr Asn Ser Ile Ser Gly Ile Leu Phe Phe
          210          215          220
Glu Gly Thr Lys Met Pro Leu Ala Asn Arg Val Asn His Leu Tyr Lys
225          230          235          240
Lys Gln Lys Gly Ile Phe Ile Asn Phe Val Arg Asn Lys Leu Gln Asn
          245          250          255
Ile Lys Leu Arg Ser
          260

```

<210> 10502

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 10502

```

Arg Met Thr Thr Leu Lys Ile Lys Tyr Leu Tyr Gly Lys Ala Leu His
1          5          10          15
Leu Asn Gln Val Ile Asp Gly Lys Thr Gly Ile Arg Leu Ser Asp Leu
          20          25          30
Ser His Tyr Ser Arg Leu Glu Asn Glu Lys Met Arg Asp Asp Glu Met
          35          40          45
Ser Lys Val Phe Ile Ala Lys Arg Glu Glu Ile Ile Met Glu Val Asn
          50          55          60
Gly Ile Arg Ile Asn Thr Ser Asp Leu Thr Asn Asp Pro Ile Ile Arg
65          70          75          80
Ile Thr Pro Arg His Cys Tyr Cys Leu Cys Leu Ser Ser Lys Gly Asp
          85          90          95
Asp Asp Tyr Leu Tyr Ser Asn Phe Gln Ala Asp Thr Cys Ile Ala Phe
          100          105          110
Asp Val Asp Lys Leu Glu Glu Arg Leu Ser Ile Ala Ser Gln Lys Phe
          115          120          125
Gln Gly Ser Phe Val Val Gly Asp Asp Ile Ile Tyr Tyr Asn Gln Thr
          130          135          140
Ser Leu His Gly Leu Gly Gln Thr Pro Glu Lys Leu Val Phe Tyr Lys
145          150          155          160
Pro Asp Phe Phe Ser His Glu His Glu Tyr Arg Ile Ala Trp Phe Tyr
          165          170          175
Pro Leu Asp Lys Asp Gly Phe Arg Ala Gly Asp Lys Asn Ile Pro Phe
          180          185          190
Thr Phe Lys Lys Asn Glu Ser Ser His Leu Phe Phe Phe His Lys Glu Arg
          195          200          205
Ser Phe Ile Thr Asp Cys Ile Ile Asn Val Phe Arg Lys
          210          215          220

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<210> 10503

<211> 106

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (93)

<400> 10503

```

Arg Val Glu Arg Pro Met Ile Arg Cys Thr Phe His Leu Asn Asn Ser
1      5      10      15
Gln Leu Ser Thr Leu Ser Cys Pro Gly Val Gly Phe Phe Pro Ala Tyr
      20      25      30
Ser Gly Asn Ala Gly Glu Asn Arg Asn Asn Pro Asp Lys Ile Ala Val
      35      40      45
Ala Gly Ile Gly Pro Leu Pro Pro Gly Lys Tyr Tyr Ile Val Met Arg
      50      55      60
Pro Gly Ser Ser Ala Ala His Phe Thr Lys Ser Phe Thr Ser Ser Ile
65      70      75      80
Leu Ser Gly Ser Asn His Phe Lys Ser Phe Gly Ser Xaa Phe Thr Thr
      85      90      95
Arg Pro Arg Thr Thr Ile Ser Pro Pro Ser
      100      105

```

<210> 10504

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 10504

```

Glu Ser Thr Ser Leu Ile Gln Asn Tyr Tyr Pro Asp Ile Ala Asp Glu
1      5      10      15
Ile Arg Arg Ile Ala Asp Asn Ile Pro Arg Arg Ser Arg Ala Ala Leu
      20      25      30
Arg Glu Lys Leu Lys Asp Ala Asn Ala Lys Asn Lys Val Leu Gln Asp
      35      40      45
Glu Ile Gln Gln Leu Gln Leu Arg Ile Ser Lys Gln Ala Thr Ile Asn
      50      55      60
Glu Met Leu Asn Tyr Asn Leu Lys Asn Lys Pro Ser Arg Asn Lys
65      70      75      80

```

<210> 10505

<211> 396

<212> PRT

<213> Enterobacter cloacae

<400> 10505

```

Ser Gln Leu Ala His Phe Leu Ala Lys Thr Gly Cys Pro Arg Glu Ile
1      5      10      15
Phe Phe Pro His Leu Cys His Gln Gly Pro Ile Ile Pro Asn Lys Asn
      20      25      30
Leu Asp Lys Tyr Glu Lys Cys Thr His Ser Tyr Lys Lys Phe Asp Ile
      35      40      45
Pro Asn Leu Val Ala Asp Glu Asn Glu His Asp Met Ser Ser Gly Leu
      50      55      60
Asp Arg Val Lys Thr Ser Ser Glu Asp Glu Met Ser Thr Glu His Val
65      70      75      80
Asp His Lys Thr Ile Ala Arg Phe Ala Glu Asp Lys Val Asn Leu Pro
      85      90      95
Lys Val Lys Ala Asp Glu Phe Arg Glu Gln Ala Lys Arg Leu Gln Asn
      100      105      110
Lys Leu Glu Gly Tyr Leu Ser Asp His Pro Asp Phe Ser Leu Lys Arg
      115      120      125
Met Ile Pro Ser Gly Ser Leu Ala Lys Gly Thr Ala Leu Arg Ser Leu
      130      135      140
Asn Asp Ile Asp Val Ala Val Tyr Ile Ser Gly Ser Asp Ala Pro Gln
145      150      155      160
Asp Leu Arg Glu Leu Leu Asp Tyr Leu Ala Asp Arg Leu Arg Lys Ala
      165      170      175
Phe Pro Asn Phe Ser Pro Asp Gln Val Lys Pro Gln Thr Tyr Ser Val

```

```

      180      185      190
Thr Val Ser Phe Arg Gly Ser Gly Leu Asp Val Asp Ile Val Pro Val
      195      200      205
Leu Tyr Ser Gly Leu Pro Asp Trp Arg Gly His Leu Ile Ser Gln Glu
      210      215      220
Asp Gly Ser Leu Leu Glu Thr Ser Ile Pro Leu His Leu Asp Phe Ile
      225      230      235      240
Lys Ala Arg Lys Arg Ala Ala Pro Lys His Phe Ala Gln Val Val Arg
      245      250      255
Leu Ala Lys Tyr Trp Ala Arg Leu Met Lys Gln Glu Arg Pro Asn Phe
      260      265      270
Arg Phe Lys Ser Phe Met Ile Glu Leu Ile Leu Ala Lys Leu Leu Asp
      275      280      285
Asn Gly Val Asp Phe Ser Asn Tyr Pro Glu Ala Leu Gln Thr Phe Phe
      290      295      300
Thr Tyr Leu Val Ser Thr Glu Leu Arg Glu Arg Ile Val Phe Glu Asp
      305      310      315      320
Asn Tyr Pro Ala Ser Lys Ile Gly Lys Leu Ser Asp Leu Val Gln Ile
      325      330      335
Ile Asp Pro Val Asn Pro Val Asn Asn Val Ala Arg Leu Tyr Thr Gln
      340      345      350
Ser Asn Val Asp Ala Ile Ile Asp Ala Ala Met Asp Ala Gly Asp Ala
      355      360      365
Ile Asp Ala Ala Phe Tyr Ala Pro Thr Lys Gln Leu Thr Ile Thr Tyr
      370      375      380
Trp Gln Lys Val Phe Gly Ser Ser Phe Gln Gly
      385      390      395

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<210> 10506

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 10506

```

Pro Ile Gly Arg Lys Phe Ser Val Leu His Ser Arg Gly Glu Ile Ile
1      5      10      15
Met Ser Ser Tyr Ser Tyr Thr Val Ala Glu Thr Gln Thr Phe Ser Val
      20      25      30
Thr His Ala Arg His Met Ala Ala Lys Val Ala Thr Asp Leu Arg Arg
      35      40      45
Met Gln Arg Phe Tyr Gly Tyr Pro Ser Asp Ala Asp Ile Glu Ala Tyr
      50      55      60
Glu Glu Glu Leu Val Val Ile Leu Lys Ala Gly Tyr Leu Gly Glu Val
      65      70      75      80
Ser Tyr Gly Phe Gln Lys Asn Asn Asn Trp Ile Glu Pro Thr Leu Arg
      85      90      95
Tyr Thr Ala Gly Asp Leu Leu Gly Ser Gly Thr Asp Asp Asp Pro Gly
      100      105      110
Lys Ile Arg Gln Gly Lys Asp Val Ser Gly Ala Ser Phe Tyr Ser Phe
      115      120      125
Met Thr Tyr Ser Ser Lys Tyr Leu Asn Ala Thr Gln Ser Glu Lys Asp
      130      135      140
Thr Ala Leu Lys Asp Leu Pro Phe Lys Arg Val Gly Ala Gln Ser Pro
      145      150      155      160
Gly Ile Asn Gly Tyr Leu Glu Asn Asp Lys Thr Tyr Ser Ala Gly Gly
      165      170      175
Arg Ser Leu Thr Arg Thr Ser Val Arg Asn Phe Val
      180      185

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<210> 10507

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 10507

```

Ile Asn Glu Val Leu Ser Tyr Ser Ser Pro Ser Gly Ser Ser Asn Gly
1          5          10          15
Tyr Ser Ser Gly Gly Gly Gly Ser Ser Ser Ser Thr Arg Pro Arg Trp
          20          25          30
Ser Arg Ala Gly Ser Ser Val Ile Tyr Thr Pro Ala Glu Val Arg Thr
          35          40          45
His Thr Pro Ala Arg Glu Asn Val Glu Arg Arg Ala Ser Val Pro Asp
          50          55          60
Leu Arg Asp Val Phe Leu Cys His Ala Trp Asp Asp Arg Lys Asp Ala
65          70          75          80
Ala Lys Glu Leu His Asp Gln Leu Glu Met Asn Gly Val Ser Val Trp
          85          90          95
Phe Ser Glu Lys Asp Val Leu Leu Gly Ala Thr Leu Leu Arg Glu Ile
          100          105          110
Asp Glu Gly Leu Ala Lys Ser Arg Val Gly Ile Val Leu Val Thr Pro
          115          120          125
Ala Leu Leu Lys Arg Leu Ala Gly Glu Gly Ile Ala Asp Lys Glu Leu
          130          135          140
Ser Ala Leu Leu Ala Arg Asp Leu Leu Val Pro Ile Val His Asn Thr
145          150          155          160
Thr Tyr Glu Asp Leu Arg Glu Val Ser Pro Leu Leu Gly Ser Arg Ser
          165          170          175
Gly Leu Ser Thr Ala Glu Asp Ser Met Ala Asn Ile Ala Ser Lys Leu
          180          185          190
Ala Glu Leu Val Thr Ile
          195

```

<210> 10508

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 10508

```

Lys Phe Ile Lys Ile Phe Asp Ile Glu Ile Leu Thr Gln Ser Asn Phe
1          5          10          15
Ser Gly Phe Leu Glu Lys His Phe Arg Gln Ser Cys Val Trp Leu His
          20          25          30
Leu Phe Leu Ser Asn Ser Asn Arg Asp Leu Ala Tyr Asn Leu Pro Ala
          35          40          45
Ile Leu Lys Pro Gly Asn Tyr Val Lys His Arg Asp Leu Thr Gln Glu
          50          55          60
Ile Leu Trp Asn Thr Leu Phe
65          70

```

<210> 10509

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10509

```

Glu Ile Ala Ala Val Ser Gly Phe Glu Arg Pro Ser Ser Glu Met
1          5          10          15
Tyr Ser Thr Pro Pro Val Leu Asn Ile Pro Ser Leu Val Thr Ile Ser
          20          25          30
Leu Asp Asp Thr Glu Phe Gly Leu Gly Asp Lys Ser Ser Phe Lys Gly
          35          40          45
Phe Ser Met Ser Ile Ser Lys Thr Gly Ile Ile Pro Ala Val Ile Leu

```

50 55 60
 Ala Ile Cys Ser Gly Ser Asp Ile Glu
 65 70

<210> 10510
 <211> 87
 <212> PRT
 <213> Enterobacter cloacae

<400> 10510
 Ile Ser Lys Glu Val Ala Leu Met Asp Glu Lys Ile Val Leu Thr Arg
 1 5 10 15
 Gln Gln Ile Leu Ser Ser Ala Leu Lys Val Ser Lys Cys Arg Ser Leu
 20 25 30
 Val Lys Arg Arg Phe Gln Ser Leu Gly Leu Lys Tyr Ala Asp Ser Gln
 35 40 45
 Glu Ile Pro Asp Arg Leu Thr Met Ile Asp Lys Asn Ala Phe His His
 50 55 60
 Phe Gly Lys Asn Leu Ser Asp Pro Thr Ile Ser Ile Pro Tyr Ser Ser
 65 70 75 80
 Met Gly Lys Tyr Pro Cys Pro
 85

<210> 10511
 <211> 217
 <212> PRT
 <213> Enterobacter cloacae

<400> 10511
 Lys Gly Lys Arg Tyr Leu Cys Ser Ala Val Glu Gln Pro Ser Leu Phe
 1 5 10 15
 Asn Asn Glu Gln Phe Met Ile Thr Phe Phe Arg Arg Ala Gly Leu Gly
 20 25 30
 Thr Lys Leu Ser Leu Leu Thr Gly Ala Ser Val Ala Thr Leu Phe Leu
 35 40 45
 Leu Phe Thr Phe Leu Leu Ser His Asn Ala Ser Gln Gln Leu Glu Asp
 50 55 60
 Leu Ala Val Glu Asp Leu His Asn Gln Ser Thr Gly Met Val Asp Met
 65 70 75 80
 Val Glu Met Phe Asn Thr Ser Leu Ser Glu Glu Val Glu Ser Tyr Thr
 85 90 95
 Arg Leu Phe Thr Thr Phe Leu Pro Gln Pro Leu Asn Ser Asp Ser Ser
 100 105 110
 Gln Ser Arg Thr Ile Asn Gly Leu Thr Val Pro Leu Leu Lys Gly Gly
 115 120 125
 Glu Thr Glu Leu His Glu Asn Asn Thr Leu Ser Asp Asp Phe Leu Ser
 130 135 140
 Arg Thr Gly Ala Ile Ser Thr Leu Phe Val Arg Ser Gly Asn Asp Phe
 145 150 155 160
 Ile Arg Val Ala Thr Ser Leu Arg Lys Glu Asn Gly Asp Arg Ala Ile
 165 170 175
 Gly Thr Val Leu Asp Thr Thr Ser Pro Ala Phe Ala Ala Val Thr Lys
 180 185 190
 Gly Glu Val Tyr Arg Gly Leu Ala Pro Leu Phe Gly Asn Arg Tyr Gln
 195 200 205
 Gln Pro Gln Glu Arg Val Cys Pro Lys
 210 215

<210> 10512
 <211> 81
 <212> PRT

<213> Enterobacter cloacae

<400> 10512

```

Thr Glu Ala Gln Ser Pro Asp His Ala Ser Gly Asp Val Ile Phe Ile
1          5          10          15
Leu Val Ile Ser Arg Tyr Phe Lys Tyr His Leu Phe Lys Ser Ile Leu
          20          25          30
Ile Gly Ile Ala His Asp Gly Ser Ala Thr Ala Ser Asn Phe Thr Gly
          35          40          45
Thr Pro Gly Ala Asn Arg Val Tyr His Arg Arg Glu Ser Asp Arg Thr
          50          55          60
Phe Arg Asp Leu Pro Arg Tyr Arg Ala Thr Gly Tyr Gln Gln Ala Gly
65          70          75          80

```

<210> 10513

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 10513

```

Gly Ser Lys Arg Ser Met Pro Met Lys Thr Gln Arg Val Ile Lys Val
1          5          10          15
Ala Thr Phe Leu Ala Phe Cys Leu Pro Gly Leu Thr Leu Ala Glu Asp
          20          25          30
Cys Gln Ile Thr Leu Ser Gln Pro Ile Val Asp Tyr Lys Gln Leu Lys
          35          40          45
Arg Asp Asp Ile Val Thr Ser Gln Gln Ser Trp His Lys Leu Pro Glu
          50          55          60
Arg Glu Val Thr Val Asn Val Phe Cys Pro Asp Lys Gln Lys Leu Ala
65          70          75          80
Val Leu Leu Gln Gly Asn Ala Gly Glu Lys Gly Arg Phe Arg Phe Gly
          85          90          95
Gln Asn Gly Gly Val Ala Val Lys Ile Asp Asp Met Asn Val Asp Gly
          100          105          110
Lys Ser Tyr Thr Val Gly Lys Thr Val Asp Gln Leu Asn Phe Thr Pro
          115          120          125
Glu Ser Gly Ser Pro Ser Pro Phe Tyr Leu Arg Asn Asn Glu Ala Val
          130          135          140
Val Ala Val Glu Asn Asn Gln Ala Val Thr Gly Gln Gln Met Thr Phe
145          150          155          160
Thr Ala Thr Ile Phe Pro Val Leu Asn Glu Ser Ala Phe Ser Asn Asn
          165          170          175
Ala Asp Gln Thr Thr Leu Glu Ser Asp Phe Ser Trp Lys Ile Leu Gln
          180          185          190
Asn Asn Pro
          195

```

<210> 10514

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10514

```

Ile Ile Lys Ser Gly Ile Thr Gln Gly Tyr Pro Leu Lys Leu Phe Ile
1          5          10          15
Ala Phe Ile Ile Val Thr Ile Leu Leu Glu Ile Lys Lys Asn Glu Lys
          20          25          30
Cys Ser Leu Ile Phe Leu Phe Phe Asp Gln Phe Lys Lys Tyr Ile Ile
          35          40          45

```

Phe Ser Lys Lys Lys Arg Pro Gly Ile Asn Leu Thr Val Lys Ile Lys
 50 55 60
 Ile Glu Leu Ala Leu Phe Tyr Asn Ala
 65 70

<210> 10515

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 10515

Arg Leu Thr Gly Gly Ile Glu Gly Ile Glu Asn Phe Asn Gly Met Arg
 1 5 10 15
 Gln Glu Leu Phe Ala His Glu Arg Lys Leu Ser Pro Gln Thr Ala Ala
 20 25 30
 Ile Glu Gln Ala Gly Ser Gly Lys Leu Phe Gln Phe Val Gln Arg Phe
 35 40 45
 Gly Glu Cys Arg Leu Thr Glu Val Lys Gly Phe Ser Arg Ser Pro Gln
 50 55 60
 Arg Ser Leu Leu Ser Asp Gly His Lys Ser Met Gln Met Ala Gln Ala
 65 70 75 80
 Tyr Ala Leu Thr Glu Gln Thr Ile Phe Phe His Arg Arg Cys
 85 90 95

<210> 10516

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10516

Arg Gln Asn Ala Ser Leu Val Glu Glu Ala Ser Ala Ala Ala Ser
 1 5 10 15
 Leu Glu Glu Gln Gly Ala Arg Leu Thr Glu Ala Val Gly Ala Phe Arg
 20 25 30
 Leu Asn Gly Ala Arg Ala Gly Arg Ala Pro Ala Ala Ala Asn Ala Ala
 35 40 45
 Lys Pro Ser Pro Leu Thr Pro Ala Ala Val Val Ser Gly Asp Asn Trp
 50 55 60
 Glu Thr Phe
 65

<210> 10517

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 10517

Trp Ala Ala Phe Asp Ala Val Tyr Asp Leu Ile Gly Gly Glu Ile Lys
 1 5 10 15
 Lys Phe Phe Ile Leu Pro Pro Leu Met Asp Ala Val Val Thr Pro Ser
 20 25 30
 Cys Lys Gln Pro Gln Cys Val Asp Leu Lys Lys Ile Lys Ser Gly Gln
 35 40 45
 Leu Lys Lys His Val Leu Pro Leu Leu Gln Val His Asn His Met Leu
 50 55 60
 Thr Glu Phe Leu Val Glu Thr Phe Arg Trp Val Lys Leu Leu Val Ser
 65 70 75 80
 Thr Trp Val Leu Pro Thr Leu Val
 85

<210> 10518

<211> 68
 <212> PRT
 <213> Enterobacter cloacae

<400> 10518
 Ser Ala Ser Lys Glu Glu Glu Lys Gln Ser Lys Lys Lys Glu Gly Ser
 1 5 10 15
 Ser Asp Glu Lys Glu Lys Lys Ala Glu Arg Glu Lys Glu Lys Glu Lys
 20 25 30
 Asp Thr Gln Lys Glu Lys Ser Glu Gly Glu Glu Ala Ala Asp Pro Asp
 35 40 45
 Asn Pro Glu Lys Glu Glu Arg Glu Glu Glu Thr Ala Lys Asp Thr Glu
 50 55 60
 Ser Gln Val
 65

<210> 10519
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 10519
 Val Asn Gln His His Glu Leu Gln Lys Ser Asp Pro Gln Thr Lys Asp
 1 5 10 15
 Lys Lys Glu Arg Glu Glu Ala Val Pro Asn Leu Tyr Lys Glu Thr Ile
 20 25 30
 Lys Ala Lys Gln Pro Gly Lys Glu Glu Lys Ala Asn Arg Glu Asp Pro
 35 40 45
 Lys Ile Gln Gln Thr Ile Arg Glu Gly Ser Leu Glu Gly Lys Arg Lys
 50 55 60
 Glu Arg Asp Lys Asp Asp Gln Arg Lys Ile Gln Ile Gly Asp Asn Cys
 65 70 75 80
 Val Phe Ser His Lys Ala Val Trp Gln Gly Tyr Leu Cys
 85 90

<210> 10520
 <211> 209
 <212> PRT
 <213> Enterobacter cloacae

<400> 10520
 Leu Ser Val Val Ser Asn Arg Gly Gly Arg Ser Gly Gly Leu Lys Gly
 1 5 10 15
 Phe Gly Ile Met Ser Leu Ser Ser Leu Tyr Ser Ser Ser Asp Ala Glu
 20 25 30
 Tyr Ile Gln Val Asn Gln Tyr Leu Val Phe Val Pro Asn Pro Lys Lys
 35 40 45
 Leu Pro Tyr Asn Asp Glu Ser Leu Val Arg Glu Gly Ala Lys Tyr Val
 50 55 60
 Phe Glu His Thr Lys Ala Thr Gln Ala Ser Phe Gly Tyr Asn Pro Glu
 65 70 75 80
 Lys Gln Lys Ala Ala Leu Ala Thr Cys Lys Ile Asp Met Ala Val Val
 85 90 95
 Asn Lys Trp Ser Thr Cys Asp Leu Pro Ser Lys Pro Asp Ala Asp Val
 100 105 110
 Phe Pro Thr Asp Ser Met Tyr Ser Phe Gln Ala Ile Arg Pro Ala Thr
 115 120 125
 Gly Thr Glu Ile Pro Glu Leu Asn Leu Pro Ala Gly Asp Tyr Ala Val
 130 135 140
 Ile Arg Tyr Val Phe Ile Pro Phe Lys Gly Asn Glu Thr Ser Ala Asp
 145 150 155 160

<210> 10521
<211> 150
<212> PRT
<213> Enterobacter cloacae

```
<210> 10522
<211> 227
<212> PRT
<213> Enterobacter cloacae
```

<400> 10522															
Ile	Pro	Leu	Phe	Phe	Phe	Ala	Glu	Asp	Leu	Ser	Met	Lys	Asp	Leu	Ser
1				5					10					15	
Ser	Ser	Pro	Ala	Ser	Met	Ser	Val	Val	Tyr	Thr	Ile	Glu	His	Val	Ser
			20					25					30		
Thr	Val	Pro	Leu	Arg	His	Trp	His	Ala	Phe	Val	Leu	Ala	Val	Thr	Glu
		35					40					45			
Thr	Phe	Trp	Gln	Leu	Pro	Val	Arg	Leu	Arg	Pro	Gly	Asn	Met	Tyr	Leu
	50					55					60				
Pro	Ser	Leu	Asn	Arg	Ala	Ala	Asp	Leu	Phe	Pro	Val	Ala	Asp	Val	Met
65					70					75					80
Ala	Phe	Cys	Gly	Asp	Ser	Gly	Gly	Ser	Phe	Trp	Pro	Val	Asn	Met	Thr
			85						90					95	
Ile	Glu	Arg	Glu	Arg	Ser	Asn	Asn	Thr	Leu	Ser	Ile	Gln	Glu	Leu	Asp
			100					105					110		
Phe	Gln	His	Gln	Pro	Cys	Asp	Phe	Phe	Ala	Arg	Val	Val	Met	Val	Leu
		115					120					125			
Leu	His	Asn	Leu	Cys	Pro	Gly	Ser	Phe	Arg	Ile	His	Ser	Ser	Asp	Glu
	130					135					140				
Gly	Arg	Ser	Trp	Ala	Ile	Pro	Leu	Arg	Trp	Ile	Glu	Arg	His	Ile	Gly

145 150 155 160
 Leu Pro Glu Gln Ser Ser Leu Thr Thr Pro Gln Pro Val Leu Gln Thr
 165 170 175
 Pro Val Ser Glu Gly Ala Phe Asp Ser Leu Leu Leu Gln Leu Leu Ser
 180 185 190
 Gly Gly Glu Arg Val Leu Ser Ser Glu Asp Trp Asn Ala Phe Val Leu
 195 200 205
 Ala Glu Phe His Leu Tyr Glu Leu Lys Arg Val Thr Glu Arg Thr Asp
 210 215 220
 Ala Pro
 225

<210> 10523

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 10523

Leu Ser Pro Ser Arg Glu Asp Thr Ala Pro His Gly Ala Val Ser Ser
 1 5 10 15
 Phe Phe Tyr Glu Arg Gly Val Phe Thr Met Ser Glu Trp Cys His Asn
 20 25 30
 Arg Leu Glu Ile Thr Gly Lys Pro Val Cys Ile Asp Val Met Leu Gln
 35 40 45
 Trp Ile Asn Gly Thr Asp Ala Pro Arg His Arg His Ala Val Gln Gln
 50 55 60
 Ser Ile Gln Leu Phe Leu Ala Gly Ala Ala Gly Ile Leu Lys Pro Val
 65 70 75 80
 Arg Thr Thr Ser Tyr Pro Pro Phe Gln Gly Leu Val Arg Ala Gly Thr
 85 90 95
 Gly Leu Ser Thr Ala Ala Asn Gln Ala Phe Glu Asn Trp Leu Ala Leu
 100 105 110
 Leu Leu Thr Asp Ala Val Leu Asp Ala Glu Thr Ile Arg Val Ile Asp
 115 120 125
 Arg Leu Tyr His Gln Ser Gly Leu Gly Ala Leu Lys Trp Glu Asn Ile
 130 135 140
 Pro Val Ser Ser Arg Asp Val Met Ala Glu Leu Ile Ile Arg Gln Tyr
 145 150 155 160
 Thr Asp Trp Phe Gly Leu Val Ser Ala Gly Asp Glu Ser Asp Ala Ala
 165 170 175
 Ala Ala Trp Glu Arg Leu Ser Gln Tyr Pro Glu Arg Ser Gln Pro Cys
 180 185 190
 Asp Met Leu Ala Val Ile Pro Ser Arg Leu Ala Ala Glu Leu Asn Gly
 195 200 205
 Ala Gly Gly Leu Met Ser Gly Val Ser Thr Thr Thr Ser Leu Tyr Cys
 210 215 220
 Arg Gln Tyr Gly Met Glu Trp Pro Ala Gly His Asn Val Ser Trp Gln
 225 230 235 240
 Arg His Thr Pro Asn Ser Leu Thr Leu Gln Met Asp Thr Pro Trp Leu
 245 250 255
 Pro Pro Ser Gly Glu Val Val Gly Glu Ile Ser Ala Val Phe Asp Cys
 260 265 270
 Glu Val Arg His Ser Tyr Ser Glu Pro Val Ser Gly Leu Ser Gly Tyr
 275 280 285
 Asp Cys Tyr Asp Gly Gly Glu His Val Asp Gly His Lys Gly Ala Ser
 290 295 300
 Gly Ala Pro Gln Pro Gly Gln Val Leu Tyr Leu Val Ser Asp Glu Pro
 305 310 315 320
 Asp Ser Pro Ala Gln Asp Ala Thr Ser Tyr Arg Glu Val Arg Gly
 325 330 335

<210> 10524
 <211> 76
 <212> PRT
 <213> Enterobacter cloacae

<400> 10524
 Trp Leu Gln Lys Gln His Ile Ser Leu Leu Ile Phe Arg Ala Asn Gly
 1 5 10 15
 Ala Tyr Val Asn Cys Gly Ile Lys Trp Val Thr His Ser Met Leu Arg
 20 25 30
 Ala Val Asn Asn Met Met Leu Asp Met Pro Ala Ala Ile Ala Arg Lys
 35 40 45
 Tyr Tyr Gln Asp Arg Leu Met Arg Gln Ile Lys Arg Lys Lys Glu Lys
 50 55 60
 Asp Arg Glu Arg Leu Ala His Lys Glu Lys Ile
 65 70 75

<210> 10525
 <211> 67
 <212> PRT
 <213> Enterobacter cloacae

<400> 10525
 Phe Lys Ile Leu Ser Arg Arg Asn Tyr Leu Gln Ser Met Ile Pro Arg
 1 5 10 15
 Arg Thr Leu Lys Ala His Phe Leu Pro Trp Gly Ser Ala Ile Asp Asp
 20 25 30
 Thr Pro Ser Pro Ala Arg Tyr Pro Leu Ser Arg Ala Ala Arg Asn Gly
 35 40 45
 Met Ile Lys Tyr Cys Ala Asn Leu Ile Ser Pro Gly Val Tyr Pro Asp
 50 55 60
 Phe Cys
 65

<210> 10526
 <211> 397
 <212> PRT
 <213> Enterobacter cloacae

<400> 10526
 His Ala Phe Val His Val Gln Gln Leu Lys Arg Ser Arg Arg Met Ser
 1 5 10 15
 Arg Arg Gly Glu Arg Phe Ser Arg Met His Leu Pro Leu Pro Gln Leu
 20 25 30
 Asn His Ile Arg Ala Cys Gly Ala Cys Gln Gln Ser Gly Val Thr Ala
 35 40 45
 Leu Cys Ala Leu Pro Gln Asn Arg Asp Arg Leu Phe Pro Asn Asn Val
 50 55 60
 Tyr Leu Arg Leu Ala Gly Asp Val Asn Asp Ile Cys His Arg Asp Ala
 65 70 75 80
 Lys Arg Gly Gly Gln Phe Thr Gln Asn Gly Asn Ala Gly Val Gly Ser
 85 90 95
 Pro Phe Phe Asp Leu Tyr Gln His Ala Phe Ala Asp Ala Gly Ala Ala
 100 105 110
 Arg Lys Leu Val Gln Arg Gln Phe Leu Phe Pro Pro Ala Ala Asp
 115 120 125
 Thr Val Arg Asp Gly Gln Ala Tyr Leu Gly Asn Ile Gly Thr Arg Ile
 130 135 140
 Gly His Tyr Ile Asp Phe Ile Ser His Trp Ser Leu Pro Trp Tyr Lys
 145 150 155 160
 Thr Val Asn Thr Gly Leu Phe Met Ser Leu Val Thr Pro Ser Ile Asp

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<210> 10527
<211> 73
<212> PRT
<213> Enterobacter cloacae
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<210> 10528
<211> 133
<212> PRT
<213> Enterobacter cloacae
```

<400> 10528															
Gly	Ala	Leu	Ile	Phe	Ile	Gly	Gln	Ile	Met	Pro	His	Thr	Ser	Ser	Trp
1				5					10					15	
Trp	Gly	Leu	Met	Leu	Glu	Leu	Tyr	Arg	Ser	His	Lys	Thr	Ser	Phe	Asp
			20					25					30		
Ile	Phe	Leu	Leu	Ile	Val	Leu	Gly	Val	Ile	Val	Arg	Val	Phe	Tyr	Trp
		35					40					45			
Gly	Gly	Lys	Leu	Arg	Glu	Cys	Cys	Gly	Asp	Ile	Leu	Ile	Gly	Thr	Val
	50					55					60				

Ile Met Thr Phe Ala Ala Ala His Leu Pro Asn Val Met Ile Ala Ile
 65 70 75 80
 Pro Gln Ile Gly Ser Val Lys Phe Ser His Asn Glu Ile Ala Phe Val
 85 90 95
 Ile Gly Met Leu Gly Tyr Lys Gly Ile Lys Ala Val Ile Phe Leu Val
 100 105 110
 Leu Lys Asn Arg Phe Gly Ile Asp Leu Pro Ala Arg Ile Ala Gln Arg
 115 120 125
 Lys Asp Asn Val
 130

<210> 10529

<211> 172

<212> PRT

<213> Enterobacter cloacae

<400> 10529

Pro Ala His Ala Gly Phe Phe Met Glu Gln Thr Met Thr Asp Arg Cys
 1 5 10 15
 Lys Trp Val Ala Thr Ala Arg Lys Tyr Ile Gly Glu Ala Glu Val His
 20 25 30
 Gly Pro Lys His Asn Pro Leu Ile Leu Gln Met Trp Arg Asp Ile Lys
 35 40 45
 Arg Gly Gly Ile Lys Asp Asp Glu Thr Pro Trp Cys Ala Ala Phe Val
 50 55 60
 Gly Ser Val Leu Glu Gln Asn Gly Ile Gln Ser Thr Arg Phe Glu Ser
 65 70 75 80
 Ala Arg Ser Tyr Leu Asp Trp Gly Ile Glu Leu Gln Glu Pro Thr Tyr
 85 90 95
 Gly Cys Val Ala Val Leu Thr Arg Asp Gly Gly Gly His Val Gly Phe
 100 105 110
 Val Val Gly Gln Asn Lys Ala Gly Asp Leu Met Ile Leu Gly Gly Asn
 115 120 125
 Gln Ser Asp Ala Val Asn Ile Lys Ala Phe Ser Arg Gln Arg Val Thr
 130 135 140
 Ser Tyr Arg Trp Pro Arg Gly Gln Ser Ser Val Pro Gln Ser Leu Pro
 145 150 155 160
 Val Met Ser Ala Glu His Ser Thr Ser Glu Ala
 165 170

<210> 10530

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 10530

Ser Gly Arg Gly Arg Val Ala His Arg Cys Lys Ser Arg Leu Arg Ala
 1 5 10 15
 Met Ser Cys Tyr Asp Asp Asp Leu Asn Ala Gly Asp Glu Gln Met Leu
 20 25 30
 Glu Ala Phe Gly Arg Pro Val Arg Leu Pro Asn Arg Ala Asp Pro Ile
 35 40 45
 Ile Ala Ile Phe Asn Glu Pro Tyr Ala Arg Thr Asp Leu Pro Ser Ser
 50 55 60
 Gly Gly Gly Phe Ile Thr Gly Thr Val Thr Ser Ile Thr Val Lys Ser
 65 70 75 80
 Gly Ser Val Asp Gly Ile Ala Arg Arg Asp Val Ile Gln Gly Thr Lys
 85 90 95
 Lys Ala Arg Asn Trp Asp Glu Lys Arg Lys Pro Trp Phe Trp Gly Gln
 100 105 110
 Leu Glu Leu Asn Tyr Phe Leu Glu Ser Ser Pro Cys Pro Asp Gly Ser

115 120 125

<210> 10531
 <211> 324
 <212> PRT
 <213> Enterobacter cloacae

<400> 10531
 Thr Ala Gly Asn Asn Phe Leu Phe His Leu Gly Tyr Thr Gln Met Gln
 1 5 10 15
 Val Lys Ser Leu Gly Phe Ser Ile Thr Asn Asp Asn Glu Asn Ile Lys
 20 25 30
 Thr Ile Asp Val Met Asn Glu Phe Ile Lys Ser Ser Arg Gln Tyr
 35 40 45
 Asn Arg Ala Asp Tyr Thr Arg Arg Phe Leu Met Ser Asp Val Asn Asp
 50 55 60
 Phe Tyr Tyr Gly Leu Val Val Thr Phe Lys Asn Gln Lys Lys Asn Cys
 65 70 75 80
 Met Ser Gln Phe Ile Asp Gly Lys Phe Lys Leu Lys Val Glu Glu Leu
 85 90 95
 Gln Gly Asp Glu Lys Leu Val Thr Phe Asn Leu Phe Leu Leu Asn Lys
 100 105 110
 Thr Asn Leu Arg Gly Leu Tyr Met Ser His His Gly Ser Cys Ser Leu
 115 120 125
 Asn Thr Leu Phe Ser His Phe Gln Thr Val Ser Asn Glu Phe Ile Arg
 130 135 140
 Lys Gln Asn Ala Ala Asp Ile Glu Lys Leu Gly Asp Asn Pro Lys Gln
 145 150 155 160
 Lys Glu Val Thr Ala Val Asn Lys Lys Tyr Lys Lys Arg Phe Ser Phe
 165 170 175
 Ser Ile Met Thr Lys Lys Glu Asp Ile Lys Ser Ile Leu Gly Gln Phe
 180 185 190
 Lys Glu Ile Lys Lys Ala Ser Phe Lys Phe Asp Tyr Ile Asp Phe Lys
 195 200 205
 Gly Gly Ala Leu Thr Pro Leu Glu Ala Phe Ala Asn Ser Thr Thr Ile
 210 215 220
 Asp Met Ser Ile Asn Pro Asp Asp Lys Tyr Lys Val Gly Ala Leu Ser
 225 230 235 240
 Gln Thr Met Ser Asp Thr Phe Glu Ala Met Lys Gly Gly Ile Ser Lys
 245 250 255
 Ala Arg Val Thr Ala Val Asp His Gly Gly Ile Glu Lys Ile Ile Asp
 260 265 270
 Phe Met Asp Cys Pro Ala Phe Phe Glu Ser Tyr Asp Phe Asp Val Ile
 275 280 285
 Ala Glu Lys Ile Asn Gly Leu Thr Asn Asp Asn Tyr Thr Ser Asn Pro
 290 295 300
 Val Phe Asp Met Ile Lys Asp Glu Ile Leu Asn Gly Thr Asn Lys Asn
 305 310 315 320
 Ala Phe Val

<210> 10532
 <211> 99
 <212> PRT
 <213> Enterobacter cloacae

<400> 10532
 Met Asn Ala Asp Ile Tyr Ile Tyr Leu Leu Arg Arg Ser Lys Met Ala
 1 5 10 15
 Asp Ala Ala Phe Thr Leu Pro Lys Gly Val Tyr Gln Lys His Lys Glu
 20 25 30

Phe Phe Glu Lys Leu Lys Met Asp Ile Glu Val His Thr Ser Asp Lys
 35 40 45
 Asn Val Asp Met Val Ser Met Ser Cys His Lys Asp Gly Asp Asn Gln
 50 55 60
 Asp Phe Trp Asp Leu Val Glu Ala Thr Arg Leu Thr Ile Cys Lys Gln
 65 70 75 80
 Glu Asn Leu Thr Ala Asp Thr Gly Gly Ala Gly Val Val Trp Ile Phe
 85 90 95
 His Lys

<210> 10533

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10533

Glu Ile Lys Leu Cys Arg Leu Tyr Cys Ser Leu Arg Tyr Ile Asp Leu
 1 5 10 15
 Gly Asn Thr Gly Ile Phe Ile Arg Ser Cys Ile Val Ile Ile Phe Thr
 20 25 30
 Gly Asn Ser Pro Ile Ile Asp Gln Ser Ala Asp Thr Phe Lys Ile Ala
 35 40 45
 Ile Cys Leu Lys Arg Leu Ser Leu Ser Leu Ala Lys Leu Arg Leu Ser
 50 55 60
 Ala Ile Lys Ser Tyr Leu Lys Trp Ser Arg Ile Asn Leu Lys
 65 70 75

<210> 10534

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 10534

Ser Ser Cys Ile Thr Asn Ser Ala His Ser Leu Pro Lys Cys Tyr Ser
 1 5 10 15
 Val Ile Leu Lys Leu Val Leu Lys Asp Ile Val Ser Gly Lys Thr Phe
 20 25 30
 Gly Glu Phe Val Lys Pro Leu Asn Lys Leu Ala His Lys Leu Phe Pro
 35 40 45
 Lys Asn Ser Gly Gln Lys Leu Pro Ser Leu Lys Gly Lys Pro Ser Pro
 50 55 60
 Asp Arg Lys Val Lys Gly His Ile Ile Tyr Phe Phe Ser Ile Ile Thr
 65 70 75 80
 Lys Ile Ile Tyr Phe Ile Phe Tyr Ser Phe Ile Lys Glu Ser
 85 90 95

<210> 10535

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10535

Arg His Leu Arg Gly Glu Asp Arg Asp Thr Leu Arg Arg Met Ala Ala
 1 5 10 15
 Glu Leu Asn Val Pro Leu Asn Tyr Phe Phe Cys Asp Asp Gln Thr Thr
 20 25 30
 Ala Glu Leu Ala Leu Leu Ile Ser Arg Met Thr Glu Glu Glu Arg Ser
 35 40 45
 Lys Leu Ile Glu Ala Leu Lys Thr Ser Ser Gly Asp Asn Thr Ala Asp
 50 55 60

Lys Lys
65

<210> 10536
<211> 63
<212> PRT
<213> Enterobacter cloacae

<400> 10536
Arg Leu Asp Pro Met Arg Ser Phe Ala Ser Pro Leu Asn Thr Asn Ile
1 5 10 15
Ala Tyr Ala Lys Lys Ile Ile Trp Gln Ser Phe Ile Pro Gln Thr Phe
20 25 30
Ala Glu Val Arg Val Ile Tyr Met Ser Phe Asp Gln Gly Ile Leu Ser
35 40 45
Glu Ile Glu Cys Leu Asn Arg Thr Glu Ser Ser Asp Asp Gln
50 55 60

<210> 10537
<211> 155
<212> PRT
<213> Enterobacter cloacae

<400> 10537
Lys Gln Arg Gly Arg Lys Leu Met Arg Gly Lys Glu Leu Asp Thr Gln
1 5 10 15
Ile Glu His Glu Leu Gln Leu Met Leu Ile Glu Gly Phe Asp Lys Ser
20 25 30
Pro Ile Ser Ala Ile Asn Leu His Ala Arg Leu Lys Ser Lys Gly Ile
35 40 45
Ile Asn Gly Gly Leu Ser Thr Leu Ser Asn Ile Glu Arg Arg Arg Leu
50 55 60
Ile Ala Ala Tyr Val Asp Gln Gln Leu Ser Pro Leu Asn Leu Arg Pro
65 70 75 80
Lys Glu Lys Gln Gln Tyr Val Asn Arg Lys Thr Arg Gln Ala Leu Leu
85 90 95
Gly Arg Asn Gln Gln Leu Gln Glu Glu Asn Lys Glu Leu Arg Glu Gln
100 105 110
Leu Ala Gln Asn Thr Leu Ser Leu Ile Glu Ile Val Lys Ala Val Lys
115 120 125
Ile Asn Thr Val Ile Pro Val Glu Ser Leu Leu Ala Pro His Leu Ile
130 135 140
Met Glu Leu His Lys Arg Lys Lys Asp Gln
145 150 155

<210> 10538
<211> 414
<212> PRT
<213> Enterobacter cloacae

<400> 10538
Val Ile Leu Asn Asp Ser Glu Val Ser Val Lys Pro Val Ala Ile Gln
1 5 10 15
Tyr Ile Glu Asp Asp Ile Leu Asp Ala Arg Ala Phe Tyr Ser Ile Leu
20 25 30
Phe Gly Leu Lys Ile Leu Cys Cys Glu Glu Phe Pro Gly Phe Thr Leu
35 40 45
Glu Asp Tyr Glu Asp Leu Glu Phe Ile Pro Arg Pro Asn Ala Phe Asn
50 55 60
Trp Glu Ile Tyr Gln Asp Ile Asp Asn Ile Leu Glu Pro Leu Glu Lys
65 70 75 80

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<210> 10539
<211> 87
<212> PRT
<213> Enterobacter cloacae
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<400> 10539
Arg Ala Leu Ser Lys Lys Gln His Lys Val Ser Thr Arg Ser Leu Phe
1          5          10          15
Asp Thr Arg Thr Gln Val Arg Leu Gln Leu Ser Arg Ser Val His Lys
          20          25          30
Thr Leu Ala Ser Ala Lys Glu Ile Leu Gln Gly Arg Gly Val Asp Ser
          35          40          45
Val Ser Ile Glu Asp Leu Val Arg Ala Cys Leu Glu Glu Asn Gln Pro
          50          55          60
Ile Asp Leu Ala Ser Leu Tyr Leu Glu Asn Leu Leu Lys Gln Lys Gly
65          70          75          80
Thr Ser Ile Cys Asp Phe
          85

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<210> 10540
 <211> 151
 <212> PRT
 <213> Enterobacter cloacae

<400> 10540
 Trp Trp Ile Val Phe Cys Phe Thr Ile Pro Asn Leu Arg Lys Lys Gln
 1 5 10 15
 Lys Thr Lys Leu Leu Trp Leu Ser Leu Asn Leu Asn Arg Leu Lys Glu
 20 25 30
 Lys Gly Val Lys Met Glu Leu Gly Ile Met Val Cys Ile Val Leu Leu
 35 40 45
 Leu Ser Val Ala Ala Ala Trp Ile Ser Asn Lys Thr Val Asp Leu Leu
 50 55 60
 Glu Arg Phe Tyr Phe Lys Arg Pro Leu Ser Met Glu Tyr Ala Ala Trp
 65 70 75 80
 Leu Arg Val Met Cys Ala Gly Leu Leu Leu Val Phe Ile Gln Val Ala
 85 90 95
 Pro Gln Phe Thr Leu Leu Tyr Thr Leu Lys Leu Val Thr Leu Ile Asn
 100 105 110
 Leu Gly Ile Gln Thr Met Lys Leu Asn Gly Val Tyr Lys Tyr Lys Arg
 115 120 125
 Thr Gly Ile Leu Pro Pro Gly Gly Ala Leu Ser Asn Leu Thr Arg Leu
 130 135 140
 Asn Pro Phe Lys Lys Lys
 145 150

<210> 10541
 <211> 180
 <212> PRT
 <213> Enterobacter cloacae

<400> 10541
 Asn Met Ser Thr Gln Lys Gln Leu Ser Arg Thr Thr Gly Thr Glu Arg
 1 5 10 15
 Met Phe Lys Glu Glu Leu Ala Leu Ser Leu Ile Cys Trp Val Phe Thr
 20 25 30
 Ser Pro Phe Thr Asn Trp Thr Asp Lys Val Phe Ser Gly Ile Glu Val
 35 40 45
 Pro Ser Glu Gly Pro Ser Ser Leu Arg Gly Glu Thr Glu Lys Phe Phe
 50 55 60
 Arg Phe Val Val Asn Glu Glu Gly Tyr Asp Ala Gly Arg Ala Ala Ile
 65 70 75 80
 Gly Leu Asp Leu Cys Cys Phe Ser Leu Pro Leu Cys Leu Phe Pro Asp
 85 90 95
 Ala Ala Leu Ser Glu Glu Glu Val Met Ser Lys Leu Thr Gly Glu Val
 100 105 110
 Ile His Gly Ile Leu Leu Ser Leu Pro Glu Phe Ile Asp Met Pro Glu
 115 120 125
 Val Leu Ala Tyr Gln Val Arg Asp Glu Ile Leu Ala Phe Asn Thr Arg
 130 135 140
 Cys Gly Asp Gly Ile Phe His Gly Trp Asn Thr Ala Ser Glu Leu Trp
 145 150 155 160
 Lys Phe Glu Ile Phe Pro Arg Thr Thr Ile Met Met Gln His Thr Ser
 165 170 175
 Ala Ile His
 180

<210> 10542
 <211> 305

<212> PRT

<213> Enterobacter cloacae

<400> 10542

Gly Thr Thr Met Gln Trp Ile Ser Thr Ala Ser Gln Lys Ile Asp Glu
 1 5 10 15
 Arg Leu Tyr Arg Val Cys Val Trp Val Lys Lys Tyr His Ala Asp Ala
 20 25 30
 Ile Asn Arg Val Val Leu Thr Val Asp Leu Ser Lys Ala Arg His Asp
 35 40 45
 Pro Asp Glu Asp Gln Val Arg Ala Glu Leu Leu Cys Gly His Tyr Phe
 50 55 60
 Leu Leu Arg Lys Glu Asn Ala Ser Asn Ser Ala Pro Asp Asp Gln Lys
 65 70 75 80
 Phe Ala Phe Leu Pro Asp Gly Arg Asn Leu Cys Trp Gln Thr Ala Thr
 85 90 95
 Pro Val Leu Gln His Leu Leu Leu Asn Lys Asn Val Pro Glu Ser Leu
 100 105 110
 Arg Leu Leu Thr Asp Tyr Ile His Met Arg Leu Ala Arg Leu Thr Met
 115 120 125
 Val Pro Met Ser Gly Thr Ile Met Asn Glu Ala Leu Leu Asp Ser Ile
 130 135 140
 Ser Trp Val Lys Val Asp Leu Thr Tyr Phe Trp Gln Tyr Glu Gln Leu
 145 150 155 160
 Ser Ser His Leu Gly Pro Ile Gln Ile Thr His Lys Ala Leu Val Arg
 165 170 175
 Phe Gly His Leu Ala Lys Asn Asp Glu Asn Ser Ser Ala Ile Arg Ile
 180 185 190
 Leu Arg Gln Arg Leu Ser Ser Glu Phe Leu Gln Glu Phe Gln Met Ala
 195 200 205
 Glu Asp Glu Leu Lys Arg Lys Gln Ser Leu Met Gly Thr Met Asp Val
 210 215 220
 Lys Met Leu Phe His Ala His Tyr Pro Ser Gln Lys Met Leu Val Ala
 225 230 235 240
 Arg Tyr Lys Asn Gly Trp Val Met Val Asp Cys Phe Leu Phe His His
 245 250 255
 Thr Lys Pro Lys Lys Lys Ala Lys Asn Lys Thr Thr Val Ala Lys Pro
 260 265 270
 Gln Leu Lys Gln Thr Lys Arg Glu Gly Ser Glu Asn Gly Thr Gly His
 275 280 285
 Tyr Gly Val His Arg Val Val Thr Leu Ser Gly Gly Gly Val Asp Gln
 290 295 300

305

<210> 10543

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 10543

Cys Ile Tyr Phe Ile Asp Gly Tyr His Leu Leu Tyr Ile Thr Leu Asn
 1 5 10 15
 Asp Lys Asn Arg Pro His Gln Arg Pro Tyr Trp Arg Gln Tyr Glu Val
 20 25 30
 Asn Met Gln His Gln Asp Ala Leu Gln Arg Lys Leu Pro Glu Arg Ile
 35 40 45
 Phe His Ala Val Cys Phe Glu Gly Ile Ala Thr Ala Ile Leu Ala Pro
 50 55 60
 Thr Ala Ala Trp Leu Met Gln Arg Ser Val Val Glu Met Gly Gly Leu
 65 70 75 80

Thr Ile Ile Leu Ala Thr Thr Ala Met Leu Trp Asn Ile Ile Tyr Asn
 85 90 95
 Phe Gly Phe Asp Arg Phe Trp Pro Val Gln Arg Val Lys Arg Thr Ala
 100 105 110
 Lys Val Arg Ala Leu His Ala Leu Gly Phe Glu Cys Gly Phe Ile Val
 115 120 125
 Ile Gly Val Thr Ile Val Ala Ala Val Leu Gly Val Thr Leu Leu Gln
 130 135 140
 Ala Phe Thr Leu Glu Ile Gly Phe Phe Leu Phe Phe Leu Pro Tyr Thr
 145 150 155 160
 Met Leu Tyr Asn Trp Ala Tyr Asp Thr Leu Arg Glu Lys Ile Ile Lys
 165 170 175
 Arg His Gln Gln Arg Arg Ala Leu Ala Ser Glu
 180 185

<210> 10544

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 10544

Pro Arg Asn Thr Phe Leu Ser Leu Leu Cys Asp Pro Ile Glu Asp Ala
 1 5 10 15
 Cys Asn Leu Leu Val Leu Ile Ile Lys Ala Gly Gln Arg Gly Ile Leu
 20 25 30
 Pro Gly Gln Ala Thr Cys Gly Arg Leu Leu Val Phe Glu Arg Ser Phe
 35 40 45
 Tyr Val Ile Ile Glu Ile Ile Lys Trp Tyr Ala Ala Gly Lys Met Glu
 50 55 60
 Tyr Leu Pro Gly Val Ala Ile Ile Gly Ile Gln Asn Ser Cys Thr Ala
 65 70 75 80
 Leu Ser Leu Tyr Ile Asp Ala Gly Gln Gly Lys Ile Glu Ser Phe Leu
 85 90 95
 Phe Leu Ile Asn
 100

<210> 10545

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 10545

His Val Ser Ser Leu Arg Cys Trp Leu His Leu Leu Asp Ala Asn Asn
 1 5 10 15
 Met Lys Arg Lys Ile Ile Pro Val Leu Ile Gly Cys Ala Leu Ser Phe
 20 25 30
 Ser Gly Leu Ala Ala Gln Pro Thr Ala Glu Arg Tyr Ile Val Ser Phe
 35 40 45
 Pro Asp Gly Ser His Val Lys Tyr Ser Gly Ala Phe Ala Asp Ala Phe
 50 55 60
 Pro Asn Gly Leu Pro Val Gly Met Gly Ser Gly Leu Leu Phe Thr Gly
 65 70 75 80
 Lys Gln Gly Asp Ala Leu Thr Phe Ala Thr Val Thr Asp Arg Gly Pro
 85 90 95
 Asn Ala Asp Ser Pro Lys Met Gly Lys Asn Asp Ala Lys Ile Phe Val
 100 105 110
 Thr Pro Asp Phe Ala Pro Leu Leu Met Thr Ile Arg Val Gln Asn Gly
 115 120 125
 Lys Ala Glu Ala Val Asp Ala Arg Pro Leu His Asp Asp Lys Gly Glu
 130 135 140
 Ile Asn Gly Leu Pro Leu Gln Ser Gly Val Ile Gly Ser Thr Asn Glu

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145          150          155          160
Val Ala Leu Ser Asp Thr Leu Lys Val Leu Lys Gly Asp Asn Arg Gly
          165          170          175
Leu Asp Thr Glu Gly Ile Thr Pro Asp Gly Lys Asp Gly Tyr Trp Leu
          180          185          190
Cys Asp Glu Tyr Gly Pro Phe Leu Ile Asn Val Asp Ser Lys Gly Lys
          195          200          205
Ile Leu Ala Ile His Gly Pro Gln Ala Thr Gln Gly Glu Lys Ser Ile
          210          215          220
Ala Gly Gly Leu Pro Asn Val Ile Lys Trp Arg Gln Ala Asn Arg Gly
225          230          235
Phe Glu Gly Leu Thr Arg Met Pro Asp Gly Arg Ile Ile Ala Ala Val
          245          250          255
Gln Ser Thr Leu Asp Ile Asp Gly Lys Ser Lys Lys Gln Ala Leu Phe
          260          265          270
Thr Arg Leu Val Ser Phe Asp Pro Ala Thr Gly Lys Thr Ala Met Tyr
          275          280          285
Gly Tyr Pro Val Asp Ser Ala Ala Tyr Ser Lys Asn Ser Asp Ala Lys
          290          295          300
Ile Gly Asp Ile Val Ala Leu Asp Asn His Thr Ile Leu Leu Ile Glu
305          310          315
Gln Gly Glu Asp Lys Asn Asp Ala Met Arg Asn Leu Ile Tyr Arg Val
          325          330          335
Asp Leu Ser Lys Ala Ser Asp Leu Ala Ala Phe Asp Lys Pro Gly Glu
          340          345          350
Tyr Pro Glu Phe Asp Asp Glu Lys Thr Leu Ala Gln Arg Gly Ile Thr
          355          360          365
Leu Ala Glu Lys Thr Gln Val Val Asp Leu Arg Ala Leu Gly Trp Gln
          370          375          380
Gln Glu Lys Ala Glu Gly Leu Ala Leu Ile Asp Ser Lys Thr Leu Ala
385          390          395
Val Ala Asn Asp Asn Asp Phe Gly Val Lys Val Ala Met Gln Asn Pro
          405          410          415
Val Glu Gly Lys Lys Leu Lys Asp Tyr Arg Val Asn Ala Glu Gly Lys
          420          425          430
Leu Thr Leu Asp Asp Lys Pro Val Glu Thr Thr Leu Ser Val Lys Pro
          435          440          445
Leu Lys Lys Pro Glu Ser Asp Ser Glu Leu Trp Ile Val Thr Leu Pro
          450          455          460
Glu Ala Leu Lys
465

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<210> 10546

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10546

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Asn Ala Ala Asn Asn Asn Lys Asn Gly Glu His His Gln Gln Tyr Phe
1          5          10          15
Cys Lys Lys Thr Lys Leu Tyr Ile Tyr Cys Lys Arg Lys Lys Lys Lys
20          25          30
Arg Thr Pro Gly Lys Glu Arg Arg Pro Ser Gly Gln Leu Ile Tyr Asn
35          40          45
Thr Ala Thr Phe Glu Pro Asn Lys Met Asn Asn Asn Phe Leu Ser Ser
50          55          60
Pro Arg Gly Cys Gln Val Pro Arg
65          70

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<210> 10547

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 10547

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Pro Thr Leu Phe Leu Ser Gly Leu Glu Leu Ile Lys Tyr Lys Lys Gln
1           5           10           15
Asn Gly Ile Asn Met Ile Phe Ser Arg Cys Ala Arg Ala Glu Ile Lys
          20           25           30
Glu Asn Met Arg Lys Arg Lys Asn Lys Lys Ala His Val Thr Ser Asn
          35           40           45
Val Gly Leu Asn Ile Gly Gly Thr Asp Gly Thr Arg Thr Arg Asp Pro
          50           55           60
Leu Arg Asp Arg Gln Val Phe
65           70

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<210> 10548

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10548

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Leu Asn Gly Ile Pro Glu Val Lys Ser Ala Leu Asn Gly Arg Lys Tyr
1           5           10           15
Phe Ala Lys Gln Ile Val Ser Phe Arg Phe Cys Gly Glu Ile Lys Pro
          20           25           30
Val Leu Arg Tyr Ser Ser Asp Asp Lys Val Asn Asp Ser Cys Gln Lys
          35           40           45
Ala Gly Ala Tyr Arg Glu Gln Thr Tyr Asn Glu Arg Lys
          50           55           60

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<210> 10549

<211> 87

<212> PRT

<213> Enterobacter cloacae

<400> 10549

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Tyr Gly His Phe Asp Ser Leu Cys Arg Lys Tyr Asp Phe Val Leu Pro
1           5           10           15
Phe Trp Arg Cys Asp Gln Arg Ala His Cys Gly Ala Val Leu His Lys
          20           25           30
Phe Ser Leu Ile Asn Lys Leu Leu Phe Leu Val Ala Lys Cys Leu Val
          35           40           45
Gly Asn Thr Pro Phe Thr Phe Ser Glu Leu Leu Thr Gly Ala Cys Arg
          50           55           60
Arg Gly Pro Lys Ser Leu Val Phe Arg Ile Gly Ala Tyr Phe Arg Arg
          65           70           75           80
Trp Gly Leu Leu Thr Arg Ser
          85

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<210> 10550

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 10550

```

Arg Gly Ser His Cys Leu Tyr Val His Gly Phe Arg Phe Phe Phe Thr
1           5           10           15
Pro Leu Ala Gly Val Leu Phe Ala Phe Pro Ser Arg Tyr Trp Phe Thr
          20           25           30
Ile Gly Gln Ser Gly Val Phe Ser Leu Gly Gly Trp Ser Pro His Ile
          35           40           45

```

Gln Thr Gly Tyr His Val Ser Arg Pro Thr Leu Arg Val His Ser Lys
 50 55 60
 Cys Val Phe Val Tyr Gly Thr Ile Thr Leu Tyr Arg Arg Thr Phe Gln
 65 70 75 80
 Thr Val Pro Leu Thr His Lys Leu Ile Gln Thr Pro Gly Cys Ser Pro
 85 90 95
 Phe Ala Arg Arg Tyr Trp Gly Asn Leu Gly
 100 105

<210> 10551

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10551

Pro Asp Phe Ser Ala Ile Ser Ser Thr Ser Lys Val Asp Val Ser Glu
 1 5 10 15
 Phe Ser Thr His Trp Thr Ile Ser Leu Thr Thr Leu Ser Ala Tyr Val
 20 25 30
 Phe Val Ile Ile Cys Pro Leu Ile Thr Lys Phe Tyr Ile Tyr Leu Lys
 35 40 45
 Lys Lys Tyr Lys Phe Phe Ile His Glu Glu Leu Ser Arg Asn Thr Ile
 50 55 60
 Tyr Val Thr Ile Ser Asp His Leu Leu Gln Pro Glu Gly
 65 70 75

<210> 10552

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10552

Ala Ala Val Thr Ala Met Ser Met Met Phe Ile Ser Leu Ile Ile Leu
 1 5 10 15
 Ser Val Val Met Val Thr Pro Leu Met Leu Met Ile Ala Met Thr Met
 20 25 30
 Phe Phe Leu Thr Met Ile Met Phe Phe Ile Ser Met Thr Met Phe Met
 35 40 45
 Ala Ala Ser Phe Met Cys Met Pro Thr Phe His Met Pro Leu Leu Ala
 50 55 60
 Met
 65

<210> 10553

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10553

Tyr Phe Arg Ile Lys Leu Ile Asn Arg Lys Ser Ser Val Met Ala Lys
 1 5 10 15
 His Lys Ser Asn Ser Leu Val Leu Arg His His Gly Pro Arg Lys Ile
 20 25 30
 Ala Asn Leu Leu Thr Leu Cys Phe His Glu Asn Asp Val Ala Pro His
 35 40 45
 Leu Leu Val Tyr Pro Asn Asp Leu Tyr His Gln Gln Ser Leu Ile Tyr
 50 55 60
 Glu Glu
 65

<210> 10554

<211> 67
 <212> PRT
 <213> Enterobacter cloacae

<400> 10554
 Ala Thr Arg His Phe Leu His Trp Asp Arg Leu Pro Arg Tyr His Arg
 1 5 10 15
 Phe Ile Tyr Lys Thr Cys Ser Phe Thr Tyr Leu Thr Ile Asn Arg His
 20 25 30
 Ser Leu Thr Trp Ser Asn Phe Asp Asn Val Ile Lys Asp Tyr Ile Ile
 35 40 45
 Asn Trp Asn Ile Asp Asn Asn Ala Ile Thr Gln His Met Arg Leu Phe
 50 55 60
 Gly Leu
 65

<210> 10555
 <211> 63
 <212> PRT
 <213> Enterobacter cloacae

<400> 10555
 Ile Asn His Ser Glu Phe Met Cys Asp Lys Ile Val Trp Ser Phe Phe
 1 5 10 15
 Ile Tyr Ser Val Asn Arg Phe Thr Ser Arg Glu Leu Ile Gln Pro Glu
 20 25 30
 Val Gly Tyr Phe Asn Gly Gly Ala Met Gly Val Leu Phe Leu Met Asn
 35 40 45
 Gly Met Phe Val Lys Arg Ile Ala Asn Asn Val Arg Gly Ile
 50 55 60

<210> 10556
 <211> 710
 <212> PRT
 <213> Enterobacter cloacae

<400> 10556
 Asn Gly Asp Asn Gly Met Thr Glu Ala Lys Thr Lys Pro Tyr Ala Pro
 1 5 10 15
 Arg Val Val Ser Glu Gly Asp Ile Pro Val His Lys Thr Leu Gly Glu
 20 25 30
 Val Ala Gln Thr Arg Asn Val Gly Ile Pro Arg Pro Met Pro Gly Ile
 35 40 45
 Val Ile Leu Val His Gly Val Asn Asp Val Gly Glu Ala Tyr Gln Asn
 50 55 60
 Gln Glu Lys Gly Ile Leu Ala Gly Leu Gly Lys Arg Leu Asn Arg Gln
 65 70 75 80
 Asp Phe Tyr Ala His Glu Trp Lys Asp Tyr Arg Ile Ile Thr Pro Gly
 85 90 95
 Arg Ser Pro Ile Ile Pro Phe Tyr Trp Gly Tyr Lys Pro Val Thr His
 100 105 110
 Ala Asp Tyr Arg Ala Asp Gln Lys Arg Tyr Arg Glu Glu Val Gly Lys
 115 120 125
 Leu Ser Asp Lys Ala His Leu Pro Tyr Asp Ala Tyr Gln Glu Asp Asn
 130 135 140
 Glu Thr Asn Lys Lys Ser Leu Gly Asn Asp Gly Lys Gly Pro Phe Gln
 145 150 155 160
 Tyr Gln Asn Asp Asn Phe Lys Asn Ala Leu Asp Lys Ser Phe Ala Lys
 165 170 175
 Gly Gly Gly Thr Phe Ala Asn Ala Thr Thr Thr Ile Pro Asp Met Leu
 180 185 190

Gly Pro Gly Ala Gly Gly Phe Gly Val Ala Ala Ala Gly Phe Ala Ser
 195 200 205
 Leu His Phe Asn Asp Gly Asp Phe Thr His Pro Ile Tyr Glu Asn Pro
 210 215 220
 His Arg Ile Tyr Gln Phe Phe Ala Ala Gln Arg Leu Ala Asp Leu Ile
 225 230 235 240
 Ile Gln Ile Arg Gln Pro Leu Val Thr Gln Asn Asp Val Ile Asn Ile
 245 250 255
 Val Ala His Ser Gln Gly Thr Ile Ile Thr Met Leu Ala Asn Met Leu
 260 265 270
 Val Lys Gln Ala Gly Tyr Asp Pro Val Asn Cys Val Ile Leu Asn His
 275 280 285
 Ser Pro Tyr Ser Leu Glu Ser Arg Val Ala Glu Asn Ile Gln Pro Gly
 290 295 300
 Tyr Gln Gln Thr Asp Asp Ala Arg Gln Gln Thr Phe Lys Asn Phe Cys
 305 310 315 320
 Arg Leu Met His Thr Gln Trp Lys Gly Gly Gly Lys Met Ala Glu Ser
 325 330 335
 Glu Leu Leu Ala Leu Glu Ala Ser Cys Thr Leu Arg Lys Pro Ser Asp
 340 345 350
 Asn Pro Leu Arg Thr Asp Gly Arg Tyr Cys Arg Ser Asn Asp Gly Lys
 355 360 365
 Val Tyr Asn Tyr Phe Cys Pro Asn Asp Gly Val Val Ser Leu Glu Asn
 370 375 380
 Val Gln Gly Phe Gly Trp Arg Gly Ile Pro Gln Asn Ile Ala Ser Asp
 385 390 395 400
 Ile Pro Asn Leu Phe Gln Arg Val Phe Tyr Gln His Gly Glu Val Gly
 405 410 415
 Asn Ile Pro Asp Ala Asn Pro Phe Glu Leu Pro Pro Arg Asn Glu Gly
 420 425 430
 Asp Ala Lys Tyr Ala Phe Leu Thr Asn Ala Ser Tyr Ser Ala Arg Asp
 435 440 445
 Val Val Ile Asn Gly Glu Glu Leu Pro Glu Pro Phe Ile Phe Lys Leu
 450 455 460
 Gln Gly Glu Asp Asn His Pro Asp Asn Asp Pro Lys Thr Ser Asp Asn
 465 470 475 480
 Pro Tyr Thr Tyr Tyr Val Asp Pro Asp Ser Pro Asp Ala Tyr Ile Ser
 485 490 495
 Tyr Ser Ala Lys Ala Ser Ala Ile Lys Arg Thr Val Thr Thr Thr Phe
 500 505 510
 Ala Val Asn Arg Tyr Gln Asn Ile Gly Trp Gln Pro Gly His Val Leu
 515 520 525
 Ser Ala Ser Glu Leu Lys Glu Glu Ser Phe Glu Arg Lys His Glu Val
 530 535 540
 Ile Tyr Gly Glu Val Ser Gly Ser Arg Asp Phe Gln Leu Val Thr Leu
 545 550 555 560
 Thr Trp Lys Lys Thr Pro Glu Glu Leu Gln Ala Glu Trp Gln Lys Ile
 565 570 575
 Asp Pro Val Gly Tyr Ser Gln His Ser Ser Ile Val Met Ser Glu Phe
 580 585 590
 Ala Pro Ser His Ala Met Ala Phe Asp Leu Ala Ile Gly Gln Cys Lys
 595 600 605
 Ser Phe Asp Tyr Gln Ala Gly Lys Phe Trp Glu Gly Leu Leu His Arg
 610 615 620
 Ala Asp Trp Arg Asp Pro Gln Asn Glu Asn Pro Tyr Ala Arg Ala Tyr
 625 630 635 640
 Tyr Arg Thr Gly Lys Leu Asp Glu Pro Thr Thr Lys Phe Phe Met Asn
 645 650 655
 Lys Pro Tyr Asp Val Leu Pro Lys Gly Glu Tyr Gly Val Val Asn Lys
 660 665 670
 Phe Asn Asn Ala Thr Thr Val Lys Pro Ser Ser Asp Leu Val Ala Gly

675 680 685
 Asn Gln Asp Val Ala Asn Leu Gln Trp Asp Met Pro Lys Pro Ile Ser
 690 695 700
 Asp Ser Gln Leu Ala
 705 710

<210> 10557

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 10557

Ser Met Lys Ile Ser Phe Met Gly Leu Met Ala Thr Ala Val Leu Leu
 1 5 10 15
 Ala Ile Gly Cys Gln Ala Lys Arg Thr Ala Thr Gln Val Val Tyr Arg
 20 25 30
 Phe Asp Asp His Arg Tyr Leu Glu Leu Lys Gly Trp Gly Arg Glu Gly
 35 40 45
 Glu Leu Trp Tyr Thr Asp Thr Glu Leu Gly Ile His Thr Gln Pro Val
 50 55 60
 Ser Gln Phe Tyr Lys Ile Phe Thr Lys Lys Phe Ile His Pro Ser Glu
 65 70 75 80
 Arg Tyr Ile Ala Ile Pro Thr Trp Gly Ser Pro Gly Thr Ile Ile Ser
 85 90 95
 Lys Asp Tyr Gly Lys Thr Trp Ser Pro Gln Phe Tyr Ser Ala Gly Ser
 100 105 110
 Asn Glu Pro Asn Gly Asp Ser Ser Pro Pro Tyr Asp Asp Ile Ile Ser
 115 120 125
 Phe Thr Val Val Lys Asp Gln Gly Phe Met Leu Thr Lys His Arg Leu
 130 135 140
 Tyr Met Ser Ser Lys Pro Phe Glu Asp Pro Arg Ile Leu Pro Gly Gly
 145 150 155 160
 Pro Gly Ile Ala Tyr Thr Val Asp Asp Gly Met Gly Asn Lys Val Ser
 165 170 175
 Gly Lys Leu Asp Pro Arg Ser Pro Gly Trp Ala Trp Gly Met Val Tyr
 180 185 190
 Met Thr Lys Gln Gly Leu Glu Gly Ser Thr Gln Gln Leu Lys Ala Asn
 195 200 205
 Trp Gln Asp Leu Pro Asp Ser Val Pro Glu Val Lys Gly Tyr Thr Gly
 210 215 220
 Trp Asp His Met Arg Cys Asp Met Asp Ala Gly Arg
 225 230 235

<210> 10558

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 10558

Leu Met Lys Gly Leu Cys Thr Val Leu Ala Ala Thr Ser Val Val Leu
 1 5 10 15
 Val Thr Gly Cys Leu Val Lys Glu Pro Pro Thr Gln Val Val Tyr Arg
 20 25 30
 Phe Asp Asp His Arg Tyr Leu Glu Leu Lys Gly Trp Asp Cys Glu Gly
 35 40 45
 Glu Leu Trp Tyr Thr Asp Thr Lys Arg Gly Ile His Thr Glu Pro Val
 50 55 60
 Ser Gln Phe Tyr Arg Leu Phe Thr Arg Lys Phe Ile His Pro Ser Glu
 65 70 75 80
 Arg Tyr Ile Ala Leu Thr Gly Trp Gly Val Ser Gly Phe Ile Val Ser
 85 90 95

Lys Asp Tyr Gly Lys Thr Trp Arg Ser Val Ala Phe Ser Pro Asn His
 100 105 110
 Asn Glu Pro Asn Gly Asp Asp Tyr Ala Pro Tyr Glu Asp Ile Ile Ser
 115 120 125
 Phe Thr Val Val Asn Asp Gln Gly Phe Leu Gln Thr Lys His Gln Leu
 130 135 140
 Tyr Met Ser Ser Lys Pro Phe Glu Asp Pro Arg Ile Leu Pro Gly Gly
 145 150 155 160
 Pro Gly Ile Ala Tyr Thr Val Asp Asp Gly Met Gly Asn Lys Val Ser
 165 170 175
 Asp Thr Leu Asp Pro Arg Phe Pro Gly Trp Ala Trp Gly Met Val Tyr
 180 185 190
 Met Thr Lys Gln Gly Leu Lys His Ser Thr Gln Gln Phe Lys Ala Asn
 195 200 205
 Trp Gln Asp Leu Pro Asp Ser Val Pro Glu Val Lys Glu Tyr Thr Gly
 210 215 220
 Trp Asp His Met Arg Cys Asp Met Asp Ala Gly Arg
 225 230 235

<210> 10559

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10559

Leu Met Lys Gly Leu Cys Thr Val Leu Ala Ala Thr Ser Val Val Leu
 1 5 10 15
 Ala Thr Gly Cys Gln Ala Lys Glu Pro Pro Thr Gln Val Val Tyr Arg
 20 25 30
 Phe Asp Asp His Arg Tyr Leu Glu Leu Lys Gly Trp Gly Cys Asp Arg
 35 40 45
 Lys Leu Trp Phe Pro Asp Thr Lys Pro Ser Ile His Ser Glu Thr Pro
 50 55 60
 Lys Phe Val
 65

<210> 10560

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10560

Lys Arg Ser Ile Phe Glu Arg Cys Val Arg Ile His Leu Pro Val Phe
 1 5 10 15
 Thr Phe Gln Glu Arg Gln Asn Ser Ser Ala Leu Val Met Ile Phe Pro
 20 25 30
 Pro Phe Tyr His Ser Cys Arg Lys Pro Lys Arg Gln Pro Cys Ser Lys
 35 40 45
 Phe Ala Thr Tyr Pro Glu Gly Ala Asn Gly Val Leu
 50 55 60

<210> 10561

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10561

Lys Arg Thr Pro Arg Ser Gly Leu Pro Lys Cys Pro Cys Ala Leu Phe
 1 5 10 15
 Val Ser Leu Thr Lys Ser Cys Ser Lys Val Gly Tyr Gln Ile Ile Leu
 20 25 30

Leu Leu Tyr Arg Ser Asp Gly Ile Val Gln Pro Arg Thr Ile Pro Ser
 35 40 45
 Leu Thr Val Ile Lys Asn Lys Asp Asn Ile Gly Pro Thr Ile Tyr Leu
 50 55 60
 Asn Ile Leu Ser Leu Phe Leu Thr Pro Ile Thr Tyr Arg
 65 70 75

<210> 10562

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10562

Lys Ser Asn Gly Pro Leu Ser Pro Leu Phe Val Thr Ser Ser Gln Phe
 1 5 10 15
 Tyr Tyr Ser Arg Pro Leu Ser Leu Leu Ser Val Val Val Ile Ser Leu
 20 25 30
 Pro Glu Pro Cys Leu Leu Phe Ile Thr His Ile Ala Gly His Gly Ile
 35 40 45
 Asp Ile Asn Trp Leu Ala Leu Gly Val His Thr Gly Lys Thr Ala Cys
 50 55 60
 Gln Lys Ile Lys Ile Leu
 65 70

<210> 10563

<211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 10563

Trp Arg Cys Cys Thr Cys Gly Trp Ala Arg Thr Trp Met Tyr Val Cys
 1 5 10 15
 Ser Tyr Ala Leu Pro Gly Ile Cys Cys Arg Met Arg Gly Cys Pro Ala
 20 25 30
 Met Arg Asn Lys Ser Arg Arg Ser Gly Ala Arg Gln Cys Cys Val Pro
 35 40 45
 Leu Ile Arg Asn Arg Thr Glu Thr Thr Leu Ser Pro Phe Thr Leu Asp
 50 55 60
 Ala Phe Ser Ala Ser Gly Lys Thr Phe Ser Glu Gly Lys Thr Met Lys
 65 70 75 80
 Met Ala Ile Thr Ala Gly Lys Ala Leu Ala Ile Thr Leu Ala Thr Leu
 85 90 95
 Leu Thr Gly Cys Gly Leu Thr Gln Lys Val Thr Asp Gly Thr Val Ala
 100 105 110
 Val Thr Lys Ser Ile Phe Tyr Arg Gln Val Lys Thr Leu His Leu Asp
 115 120 125
 Ile Gln Ala Arg Glu Gly Val Asn Asn Asn Ala Lys Gly Ala Ser Leu
 130 135 140
 Ala Thr Val Val Arg Ile Tyr Gln Leu Lys Glu Arg Lys Ala Phe Asp
 145 150 155 160
 Ser Thr Asp Tyr Pro Ser Leu Phe Ala Ser Asp Thr Gln Ala Ile Lys
 165 170 175
 Ala Asp Leu Val Ala Glu Lys Asp Ile Arg Leu Arg Pro Gly Glu Ser
 180 185 190
 Val Thr Leu Asp Met Pro Met Glu Glu Ser Ala Gln Val Val Ala Val
 195 200 205
 Ala Gly Met Phe Met Ala Pro Asp Gln Val Asn Asp Thr Trp Arg Ile
 210 215 220
 Thr Leu Thr Arg Asp Asp Leu Asp Pro Asp Lys Ala Arg Val Ile Glu
 225 230 235 240
 Val Ser Asn Asn Arg Leu Thr Leu Lys Pro Leu Glu Gly Glu

245

250

255

<210> 10564

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10564

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Ile Pro Val Gly Pro Glu Pro Ile Met Ala Ile Phe Phe Ile Glu Ser
1          5          10          15
Val Pro Ala Phe Leu Asn His Thr Thr Ser Val Ala Gly Glu Arg Leu
20          25          30
Ser His Ser Met Lys Gly Glu Ile Lys Thr Phe Arg Arg Gly Asp Val
35          40          45
Ala Pro Leu Pro Glu Phe Met Gly Lys Ser Ile Gln Leu Thr Leu Leu
50          55          60
Ile Arg Tyr Asn Ser Ala
65          70

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<210> 10565

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 10565

```

Ala Arg Cys Arg Lys Arg Lys Arg Lys Ala Val Ala Gly Met Lys Ile
1          5          10          15
Tyr Arg Pro Leu Trp Glu Asp Gly Ala Phe Leu Ala Pro Gln Gln Phe
20          25          30
Gln Gln Gln Ala Arg Trp Asp Ala His Val Ala Asp Thr Val Ala Arg
35          40          45
Met Ala Leu Ala Asn Pro Trp Gly Val Leu Cys Ala Glu Phe Asp Glu
50          55          60
Gly Ala Leu Ala Leu Ser Arg Leu Asn Ala Thr Arg Leu Cys Val Arg
65          70          75          80
Phe Ala Asp Gly Thr Leu Val Asp Thr Asp Leu Ala Asp Thr Arg Leu
85          90          95
Arg Ser Gly Ser Arg Tyr Ala Ala Val Ala Ile Ser Gly Ala Ala Ala
100          105          110
Gly Asp Asp Ala Ala Gly Thr Asp Gly Gly Gly Asn Gly Gly Ala Gly
115          120          125
Ala Ala Ala Gly Thr Gly Tyr Ala His Ala Gly Leu Ser Pro
130          135          140

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<210> 10566

<211> 220

<212> PRT

<213> Enterobacter cloacae

<400> 10566

```

Met Pro Pro Gly Phe Ala Cys Ala Leu Arg Met Val Arg Trp Trp Thr
1          5          10          15
Gln Ile Trp Arg Ile Pro Gly Cys Ala Gln Ala Ala Gly Thr Pro Leu
20          25          30
Ser Arg Phe Leu Ala Leu Leu Pro Val Met Met Leu Pro Gly Arg Thr
35          40          45
Ala Glu Gly Met Gly Ala Leu Val Arg Leu Leu Ala Pro Asp Thr Arg
50          55          60
Thr Gln Val Tyr His His Asp Arg Cys Arg Ile Pro Leu Lys Gln Pro
65          70          75          80
Val Ala Met Ser Thr Cys Gln Pro Val Ser Leu Lys His Arg Pro Val

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<210> 10567
<211> 159
<212> PRT
<213> Enterobacter cloacae
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<210> 10568
<211> 62
<212> PRT
<213> Enterobacter cloacae
```

<210> 10569

<211> 85
 <212> PRT
 <213> Enterobacter cloacae

<400> 10569

```

Asn Val Arg Glu Asn Arg Leu Val Arg Leu Asn Gly Leu Glu Pro Ser
1      5      10      15
Thr Pro Thr Met Ser Arg Trp Cys Ser Asn Gln Leu Ser Tyr Arg Arg
      20      25      30
Lys Met Val Arg Ser Ile Gly Leu Glu Pro Thr Thr Pro Thr Met Ser
      35      40      45
Arg Trp Cys Ser Asn Gln Leu Ser Tyr Glu Arg Ile Val Leu Ser Val
      50      55      60
Thr Thr Gly Thr Asn Ile Ser Gly Thr Ala Val Phe Thr Thr Gly Leu
65      70      75      80
Glu Gly Thr Ala Leu
      85
  
```

<210> 10570
 <211> 235
 <212> PRT
 <213> Enterobacter cloacae

<400> 10570

```

Val Thr Leu Cys Val Gly Ser Ser Ala Arg Ser Trp Ser Lys Thr Ile
1      5      10      15
His Ser His Leu Ser Ser Ala Cys Pro Ile Asn Gln Asn Glu Cys Ser
      20      25      30
Asn His Ile Ser Gln Phe Ser Ile Asp Ile Lys Val Gln Asp Trp Leu
      35      40      45
Ser Arg Ser Arg Val Ala Phe Ile Asp Phe His Asn Leu Arg Asn Thr
      50      55      60
Asp Lys Thr Thr Leu Ile Thr Val Glu His Leu Glu Ala Leu Leu Thr
65      70      75      80
Val Met Ser Thr Thr Leu Val Ala Tyr Ala Pro Tyr Ser Lys Lys Arg
      85      90      95
Leu Asn Phe Ser Phe Leu Asn Ser Phe Thr Leu Ser Lys Thr Ser Gln
      100      105      110
Ser Tyr Thr Leu Thr Phe Pro Val Leu Ser Pro Leu Leu Asp Ala
      115      120      125
Leu Gly Gly Phe Ile Gln Glu Cys Ile Thr Glu Lys Leu Leu Lys Arg
      130      135      140
Arg Asn Ser Asn Phe Met Val Tyr Glu Tyr Leu Lys Arg Ser Gly Gln
145      150      155      160
Ser Ser His Lys Val Glu Asp Ile Asn Asn Asp Leu Gln Leu Lys Thr
      165      170      175
Leu Asn Ile Arg Leu Met Ser Val Leu Thr Gly Leu Ser Gln Gln Gly
      180      185      190
Leu Ile Ser Phe Ile Cys Asp Gly Lys Arg Gly Asp Arg Arg Ile Glu
      195      200      205
Glu Leu Gln Phe Ile Pro Tyr Val Gln Arg Thr His Pro Glu Val Leu
      210      215      220
Thr Phe Gln Glu Trp Ile Ser Pro Val Asp
225      230      235
  
```

<210> 10571
 <211> 79
 <212> PRT
 <213> Enterobacter cloacae

<400> 10571

Lys His Asp Arg Phe Gly Ser His Pro Val Arg Arg Thr Tyr Ser Thr
 1 5 10 15
 Arg Gly Ser Pro Met Ser Asn Gln Pro Thr Ser Leu Pro Glu Glu Asp
 20 25 30
 Ile Glu Phe Val Met Asp Thr Phe Gln Arg Ser Met Gly Lys Ser Lys
 35 40 45
 Pro Val Arg Asp Thr Gln Ile Glu Gly Glu Lys Pro Gln Ser Lys Glu
 50 55 60
 Ser Ala Asn Ser Thr Glu Asn Pro Gly Tyr Glu Glu Phe Phe
 65 70 75

<210> 10572

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 10572

Gly Met Gly Asp Ile Val Ile Lys Arg Arg Asn Ile Arg Arg Ser Val
 1 5 10 15
 Tyr Gly Leu Leu Ile Val Leu Ile Ala Gly Asn Val Trp Leu Gly Leu
 20 25 30
 Arg Ala Asp Lys Ile His Lys Val Arg Tyr Gln Asp Phe Trp Ser Pro
 35 40 45
 Ala Thr Val Ile Lys Val Thr Val Met Pro Ser Thr Asn Glu Ile Gln
 50 55 60
 Leu Ser Gly Lys Ile Pro Lys Ser Val Arg Val Ser Asn Asn Tyr Val
 65 70 75 80
 Glu Tyr Ser Leu Pro Gly Thr Leu Ser Asp Lys Thr Ile Tyr Arg Ser
 85 90 95
 Val Leu Glu Asp Glu Met Leu Thr Leu Leu Asn Ala Gly Gly Gln Leu
 100 105 110
 Glu Val Lys Tyr Thr Leu Asp Lys Gln Thr Asn Arg Thr Lys Val Cys
 115 120 125
 Thr Lys Cys Leu Arg Val Ile Lys Asp Ile Asn His Gln Tyr Ser Ala
 130 135 140
 Thr Glu Val Lys His Gly Gln Ser
 145 150

<210> 10573

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 10573

Pro Thr Ala Gly Arg Arg Ile Ile Tyr Phe Trp Gln Ser Val Gly Phe
 1 5 10 15
 Val Arg Val Ile Lys Asp Ser Gly Phe Leu Pro Ala Phe Phe Lys Pro
 20 25 30
 Pro Cys Ile Val Leu Ala Pro Phe Met Arg Gly Phe Phe Phe Ala Ser
 35 40 45
 Phe Tyr Glu Leu Thr Ser Leu Ser Phe Ile Gln Arg His Lys Lys Leu
 50 55 60
 Phe Arg Val Thr Glu Pro Ile Arg Leu Gln Ser Asp Val Ala Ile Leu
 65 70 75 80
 Val Lys Val Phe Ser Lys Gly Pro Val Lys Cys His Leu Leu Ile Leu
 85 90 95
 Lys Leu Asn Pro Ile Met Gln Val Thr Ala Tyr Trp Leu
 100 105 110

<210> 10574

<211> 608

<212> PRT

<213> Enterobacter cloacae

<400> 10574

Gly Tyr Asn Leu Phe Pro Glu His His Met Arg Lys Thr Leu Ile Gly
 1 5 10 15
 Cys Met Val Ala Thr Ala Leu Ala Thr Val Ser Ser Ala His Ala Gln
 20 25 30
 Val Phe Ser Tyr Ser Phe Thr Asp Thr Asn Lys Ala Val Arg Asn Ile
 35 40 45
 Lys Pro Ala Thr Gln Thr Tyr Leu Asn Pro Ala Gly Val Leu Thr Leu
 50 55 60
 Asn Leu Ile Ser Gly Leu Asp Arg Tyr Glu Arg Val Thr Val Thr Arg
 65 70 75 80
 Asp Ser Asp Lys Lys Val Met Tyr Ser Ser Val Ser Thr Lys Thr Ser
 85 90 95
 Val Ala Asp Arg Ile Val Ala Ala Asp Gly Thr Glu Tyr Tyr Gly Lys
 100 105 110
 Asp Met Val Leu Pro Ala Leu Gly Glu Gly Thr Phe Thr Val Val Asn
 115 120 125
 Glu Thr Leu Asp Ile Arg Gln Thr Val Val Ser Thr Ser Thr Tyr His
 130 135 140
 Phe Ile Val Asp Thr Thr Pro Pro Arg Tyr Lys Ser Ile Tyr Pro Ser
 145 150 155 160
 Gln Asn Ala Gly Tyr Asp Met Val Leu Ser Gly Pro Leu Trp Glu Leu
 165 170 175
 Gly Arg Gly Gly Ser Gly Gln Phe Ser Ile Phe Ala Asp Gly Ile Glu
 180 185 190
 Asp Ala Ser Gly Ile Ala Lys Ile Arg Leu Val Ile Lys Arg Ser Asn
 195 200 205
 Gly Ser Val Val Ser Asp Asn Asn Leu Ser Tyr Asp Thr Ala Asn Lys
 210 215 220
 Arg Ala Phe Tyr Pro Trp Ile Lys Asp Met Asn Thr Gln Ala Gly Met
 225 230 235 240
 Pro Ser Ser Asp Leu Asp Glu Glu Phe Thr Phe Asn Phe Ile Val Thr
 245 250 255
 Asp Leu Ala Gly Asn Thr Leu Asn Ile Pro Pro Gln Arg Phe Leu Tyr
 260 265 270
 Asp Asp Gln Met Gly Glu Phe Thr Pro Phe Ala Val His Asp Ser Arg
 275 280 285
 Val Ser Thr Ser Val Val Pro Gly Ile Ser Ser Gly Tyr Val Pro Phe
 290 295 300
 Lys Arg Gly Leu Thr Val Leu Glu Asn Pro Tyr Lys Leu Val Ile Arg
 305 310 315 320
 Ile Pro Arg Thr Asn Trp Lys Pro Tyr Arg Asn Gly Gly Met Ser Ile
 325 330 335
 Thr Asn Asn Tyr Gly Gly Val Gln Val Leu Ser Glu Asp Ala Thr Tyr
 340 345 350
 Val Tyr Val Glu Val Lys Leu Pro Gln Gly Ala Leu Asp Gly Asn Tyr
 355 360 365
 Tyr Arg Pro Val Asn Thr Tyr Gln Trp Ser Gly Gly Asp Leu Gly Gln
 370 375 380
 Tyr Ala Ser Trp Leu Asn Trp Asp Pro Ala Ser Val Lys Ser Pro Ala
 385 390 395 400
 Trp Gly Ser Ser Pro Ile Glu Arg Gln Lys Ala Asp Gly Thr Trp Phe
 405 410 415
 Asn Ser Val Asn Trp Asn Leu Phe Lys Ala Ser Asp Met Pro Ile Lys
 420 425 430
 Leu Thr Asn Ile Arg Phe Asn Val Gln Ala Arg Pro Tyr Asp Gln Lys
 435 440 445
 Ile Thr Gly Gly Ala Thr Cys Ser Ile Pro Ala Gly Ser Thr Thr Cys

```

      450                      455                      460
Thr Val Ser Leu Pro Gln Asp Ile Ile Asn Gly Thr Thr Gly Tyr Leu
465                      470                      475                      480
His Ser Gly Tyr Glu Val Arg Ser Thr Thr Glu Ala Thr Phe Phe Ala
      485                      490                      495
Pro Ile Trp Glu Asn Ile Ala Trp His Thr Leu Gly Pro Ser Val Thr
      500                      505                      510
Gly Phe Asp Tyr Ile Glu Thr Thr Asn Ile Leu Gln Val Tyr Val Asn
      515                      520                      525
Gln Pro Gly Asp Gly Ser Tyr Phe Asp His Val Tyr Val Asn Arg Val
      530                      535                      540
Trp Leu Ser Asp Lys Asn Arg Asn Asn Ala Glu Ile Ser Val Thr Gly
545                      550                      555                      560
Lys Gln Thr Gly Arg Asn Met Ala Ser Gly Asn Tyr Thr Tyr Glu Phe
      565                      570                      575
Asn Met Lys Glu Val Pro Glu Gly Ser Tyr Asn Val Val Ile Asn Ala
      580                      585                      590
Gln Asp Thr Phe Asn Asn Thr Gly Asn Leu Pro Tyr Gln Thr Val Val
      595                      600                      605

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<210> 10575
 <211> 71
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 10575
Val Asp Gln Val Trp Ile Ala Ile Cys Lys Gln Cys Ile Leu Cys Lys
1                      5                      10                      15
His Val Gln Lys Asn Gly Thr Thr Ala Tyr Lys Gly Phe Tyr Pro Pro
      20                      25                      30
Ala Thr Met Ile Val Trp Val Val Met Ala Asp Glu Arg His Gln Phe
      35                      40                      45
Arg Phe Ser Thr Ser Pro Phe Asp Tyr Arg His Val Ser Glu Met Ser
      50                      55                      60
Ser Gln Ser Val Tyr Thr
65                      70

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<210> 10576
 <211> 103
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 10576
Ala Pro Lys Glu Lys Ser Val Thr Val Leu Asp Val Ile Leu Ser Leu
1                      5                      10                      15
Ile Val Ile Ile Ala Thr Met Asn Gly Asp Ala Ile Pro Ser Val Ala
      20                      25                      30
Arg Thr Ile Thr Asp Ile Ser Asp Arg Phe Ser Leu Ala Asp Pro Leu
      35                      40                      45
Leu Ile Ala Asp Ile Ala Leu Asn Ile Thr Asn Val Leu Leu Ser Ile
      50                      55                      60
Arg Lys Gln His Lys Ser Met Tyr Asn Ile Gly Phe Pro Gln Pro Ile
      65                      70                      75                      80
Ser Asp Gly Tyr Pro Val Ile Leu His Lys Phe Asp Ser Thr Asp Ala
      85                      90                      95
Phe Lys Ile Ser Leu Pro
      100

```

<210> 10577
 <211> 65
 <212> PRT

<213> Enterobacter cloacae

<400> 10577

```

Thr His Thr Cys Ser Ser Gln Thr Pro Tyr Phe Tyr Leu Phe Val Cys
1          5          10          15
Arg Leu Arg Leu Phe Leu Arg Cys Tyr Gly Phe Tyr Leu Thr Thr Lys
          20          25          30
Leu Asp Leu His Lys His Gly Arg Asn Met Asn His Leu Gln Val Asp
          35          40          45
Ser Arg Lys Pro Gly Glu Cys Trp Trp Phe Gln Cys Asn Gln Ile Gln
          50          55          60

```

65

<210> 10578

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10578

```

Thr His Thr Thr Leu His Val Ser Phe Ser Leu Gly Thr Asn Phe Ser
1          5          10          15
Ser Val Val Leu Ser Met Ile Leu Arg Pro Asp Val His Pro Arg Asp
          20          25          30
Leu Ser Leu Trp Leu Tyr Ile Pro Val Ile Leu Ala Ala Met Ala Ala
          35          40          45
Leu Glu Phe Thr Ser Ile Glu Arg Val Pro Ser Phe Ser
          50          55          60

```

<210> 10579

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 10579

```

Glu Phe Gly Ser Gly Thr Phe Tyr Gly Ala Pro Gly Leu Asp Lys Arg
1          5          10          15
Asp Gln Cys Phe Ser Ile Ile Leu Phe Gln Asn Val Leu Leu Arg Ile
          20          25          30
Arg Tyr Arg Pro Asp Ile His His Leu Thr Gly Lys Arg Asn Leu Tyr
          35          40          45
Gly Thr Phe Thr Thr Asp Ile Gln Lys Ala Val Phe Thr Gly Tyr Asn
          50          55          60
Thr Val Ala Cys Asp Ser Ile Ser Gly Ser Asn Gly Thr Lys Asn Gln
          65          70          75          80
Leu Thr Thr Ile Asn Ser Gln Ser Thr Asp Met Leu Gly Thr Ile Ser
          85          90          95
Asp Tyr Gly Cys Val Ile Ser Leu Arg Asn Lys His Cys Ile Arg Asp
          100          105          110
Ala Leu Ser Ile Tyr Ser Val Glu His Lys Val Thr Phe Ser
          115          120          125

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<210> 10580

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 10580

```

Ile Lys Arg Cys Ser Gly Ala Gln Phe Asp Arg Arg Phe Thr Ile Asn
1          5          10          15
Gly Asn Asn Val Thr Thr Ser Gly Val Ile Asn Leu Arg Ile Gly Pro

```

	20		25		30										
Leu	Tyr	Val	Gln	Arg	Asn	Ala	Ile	Asn	Ser	Asp	Thr	Val	Thr	Gly	Ile
	35						40					45			
Phe	Glu	Ala	Ala	Ile	Ile	His	Gln	Asp	Thr	Asn	Ile	Ile	Gly	Thr	Arg
	50					55					60				
Cys	Lys	Ile	Asp	Ile	Ser	Val	Ile	Asn	Glu	Gln	Thr	Leu	Ile	Thr	Arg
65					70					75				80	
Tyr	Lys	Thr	Ser	Arg	Ile	Thr	Lys	Arg	Gly	Gly	Tyr	Ile	Arg	Leu	Val
			85					90					95		
Ser	Lys	Asn	Arg	Thr	Arg	Ile	Leu	Thr	Cys	Asp	Gly	Thr	Ile	Glu	Ala
		100					105					110			
Val	Cys	Ile	Thr	Ile	Asn	Leu	Ser	His	Asn	Ser	Ala	Val	Thr	Tyr	Lys
	115					120						125			
Val	Tyr	Ala	Asn	Thr	Leu	Phe	Lys	Arg	Cys	Phe	Ser	Pro	Pro	Gly	Asn
	130				135					140					
Val	Gln	Ala	Leu	Ser	Ile	Ile	Pro	Gln	Asn	Leu	Lys	Ile	Thr	Ser	Arg
145					150					155				160	
Pro	Gly	Asn	Asp	Phe	Ala	Ser	Cys	Thr	Arg	Asp	Pro	Asp	Thr	Ala	Ala
			165					170						175	
Thr	Gly	Ala	Gly	Gly	Phe	His	Leu								
	180						185								

<210> 10581

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10581

Thr	Lys	Cys	Tyr	Ser	Gln	Gln	Phe	Arg	Gln	Cys	Met	Ser	Leu	Pro	Leu
1			5						10				15		
Asp	Asp	Lys	Pro	Cys	His	His	Ala	Asp	Pro	Val	Gln	Glu	Gln	Glu	Leu
		20					25					30			
Glu	Leu	Glu	Leu	Val	Gln	Val	Ser	Asp	Leu	Val	Gln	Val	Leu	Val	Ser
	35					40					45				
Tyr	Gln	Ala	Arg	Glu	Ser	Tyr	Leu	Val	Pro	Gly	Pro	Val	Thr	Ala	Leu
	50				55						60				
Asn	Ala	Asp	Thr	Ser	Arg	Arg	Leu	Arg	His						
65					70				75						

<210> 10582

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 10582

Arg	Trp	Tyr	Glu	Asn	Asp	Lys	Gly	Lys	Thr	Asp	Ile	Val	Asn	Phe	His
1			5						10				15		
Lys	Thr	Lys	Met	Asn	Leu	Phe	Ile	Tyr	Leu	Leu	Glu	His	Ala	Phe	Gln
		20					25					30			
Arg	Glu	Val	Thr	Ser	Asp	Glu	Leu	Leu	Ile	Met	Phe	Trp	Asp	Lys	Tyr
	35					40					45				
Gly	Leu	Lys	Ser	Ser	Arg	Arg	Gln	Leu	Trp	Tyr	Val	Leu	Gly	Gln	Leu
	50				55					60					
Lys	Leu	Ser	Leu	Tyr	Ser	Leu	Gly	Ile	Pro	Tyr	Asp	Phe	Ile	Gln	Thr
65					70					75				80	
Lys	Lys	Gly	Arg	Gly	Tyr	His	Leu	Glu	Lys	Val	Lys	Ile	Tyr	Leu	Ile
			85					90					95		
Ile	Asp	Ser	Gly	Thr	Gln	Cys	Ser	His	Leu	Asp	His	Ser	Arg		
	100						105					110			

<210> 10583

<211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10583
 Ser Ile Lys Gln Gln Ala Val Gln Leu Ile Arg Leu Leu Ile Ile Leu
 1 5 10 15
 Leu Trp Gly Leu Trp Leu Phe Phe Leu Gln Pro Met Glu Val Pro Leu
 20 25 30
 His Ser Leu Leu Arg Gly Asp Leu Leu Val Phe Tyr Gln Arg Met Ala
 35 40 45
 Met Val Gln Ala Leu Trp Pro Val Leu Val Val Leu Val
 50 55 60

<210> 10584
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10584
 Ser Ala Leu Leu Gly Asn Arg Phe Phe Ala Gln Gly Val Gly Asp Ile
 1 5 10 15
 Gln Pro Gly Val Thr His Val Gln Ala Leu Val Gln Thr Leu Ser Ala
 20 25 30
 Thr Ala Asp Lys Asp His Phe Leu Thr Gln Lys Glu Ala Arg Ala Ile
 35 40 45
 Ser Lys Ile Ile Ala Arg Gln Glu Ala Ala Lys Ala Gln
 50 55 60

<210> 10585
 <211> 66
 <212> PRT
 <213> Enterobacter cloacae

<400> 10585
 Phe His Val Ile Phe Arg Ile Arg Lys Ser Asn Leu Thr Ile Phe Met
 1 5 10 15
 Leu Arg Lys Phe Gly Pro Phe Phe Arg Met Lys Tyr Gln His Leu Leu
 20 25 30
 Asn Pro Val Arg Ser Leu Leu Ile Leu Cys Gly Phe Asn Arg Ile Phe
 35 40 45
 Pro Val Asn Asn Ser Val Gly Phe Ser Ala Ile Phe Gly His Lys Leu
 50 55 60
 Met
 65

<210> 10586
 <211> 76
 <212> PRT
 <213> Enterobacter cloacae

<400> 10586
 Val Ile Val Gly Ile Gln Arg His Lys Pro Gly Val Ala Ala Ile Ala
 1 5 10 15
 Asp Val Asn Gly Ala Asp Gly Arg Arg Ala Val Arg Tyr Arg Leu Pro
 20 25 30
 Asp Pro Asn Ala Arg Lys Leu Leu Ala Gly Ser Leu Gly Gln Arg Asp
 35 40 45
 Gly Ala Gly Ile Glu Ala Gly Met Ile Gly Arg Leu Arg Arg Asn Arg
 50 55 60
 Leu Asn Lys Met His Arg Lys Leu Ala Phe Gly

65

70

75

<210> 10587

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 10587

```

Ile Ala Trp Tyr Ser Ala Arg Tyr Arg Cys Asn Phe Ile Thr Met His
1          5          10          15
Cys Thr Ala Phe Thr Arg Phe Leu Lys Pro Leu Ala Leu Asn Val Ala
          20          25          30
Cys Asp Thr Val Ile Phe Arg Arg Leu Gly His Tyr Ala Arg Leu Met
          35          40          45
Thr Gln Gln Thr Ser Ile Leu Cys Ala Thr Gly Ser Glu Gln Asn Pro
          50          55          60
Thr Ser Ile Lys
65

```

<210> 10588

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 10588

```

Arg Ala Ser Gly Val Asn Val Pro Leu Ala Gly Asp Lys Ala Asn Glu
1          5          10          15
Gly Glu Met Asp Ile Ser Val Asp Ser Lys Thr Gly Ser Lys Pro Val
          20          25          30
Met Glu Ser Asn Ser Arg Ile Ile Leu Ala Ala Asp Ala Ala Leu Ala
          35          40          45
Ala Ile Asn Glu His Phe Ser Asp Glu Phe Val Lys Gly Glu Trp Ala
          50          55          60
Asp Tyr Ala Ala Leu Arg Arg Ala Ala Leu Arg Thr Ala Leu Ala Ser
65          70          75          80
Leu Ile

```

<210> 10589

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10589

```

Met Pro Asp Ala Ser Asp Tyr Phe Ser Cys Asn His Ile Phe Gly Phe
1          5          10          15
Thr Val Arg Lys Val Gly Asp Leu Asp Thr Val Ile Val Ser Asn Pro
          20          25          30
Ile Ile Ser Leu Phe His Asn Ser Pro Leu Lys Leu Phe His Leu Glu
          35          40          45
Val Tyr Met Thr Ile Gln Asn Pro Val Val Asp Lys Thr Phe Phe
          50          55          60

```

<210> 10590

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 10590

```

Lys Thr Asn Ile Ile Lys Met Ile Gln Ser Gln Leu Thr Gln Val Ile
1          5          10          15

```

Phe Trp Leu Gly Leu Ile Ala Ala Leu Pro Ala Phe Tyr Arg Phe Val
 20 25 30
 Tyr Ala Gly Ser Ser Leu Ile Trp His Lys Tyr Phe Pro Val Lys Lys
 35 40 45
 Ile Glu Ile Gln Leu Val Asn Glu Asp Lys Ala Leu Ile Glu Asn Ile
 50 55 60
 Val Leu Asp Leu Asp Lys Gln Asp Ala Lys Arg Val Ile Glu Leu Ile
 65 70 75 80
 Glu Ser Ser Arg Lys Lys Gly Lys Val Arg
 85 90

<210> 10591

<211> 300

<212> PRT

<213> Enterobacter cloacae

<400> 10591

Asn Arg Lys Val Met Glu Lys Thr Thr Ser Phe Lys Val Phe Tyr Asp
 1 5 10 15
 Ala Asp Asp Lys Glu Leu Ser Lys His Ala Ile Asp Ala Glu Thr Leu
 20 25 30
 Gly Asn Ser Ile Leu Ser Met Ala Asn Leu Ile Ser Lys Ala Asp Asp
 35 40 45
 Leu Ile Asn Glu Gly Gly Lys Ser Val Lys Val Leu Phe Ser Ala Pro
 50 55 60
 Val Glu Lys Gly Ser Val Gly Val Ala Tyr Thr Val Val Gln Leu Leu
 65 70 75 80
 Pro Asp Ala Ile Asp Val Leu Lys Thr Ile Gly Ile Val Gly Ala Val
 85 90 95
 Gly Thr Ala Val His Ala Ser Ala Leu Ser Leu Ile Arg His Leu Gly
 100 105 110
 Ser Lys Lys Val Ile Ser Val Thr Arg His Thr Gly Lys Lys Lys Gly
 115 120 125
 Ile Ala Thr Leu Glu Leu Asp Gly Glu Asp Ile Glu Cys Ser Ala Pro
 130 135 140
 Val Ala Ala Leu Val Thr Asp Pro Ala Ile Arg Asn Ala Leu Ile Ala
 145 150 155 160
 Val Val Gln Lys Pro Leu Glu Gly Lys Asp Ser Pro Val Phe Lys Ile
 165 170 175
 Val Asp Ser Lys Gly Lys Glu Ile Val Arg Leu Glu Gly Asp Glu Thr
 180 185 190
 Glu Glu Ile Lys Pro Val Pro Lys Gly Thr Leu Leu Glu Lys Asp Val
 195 200 205
 Glu Ile Lys Glu Val Asn Val Lys Phe Thr Gln Val Asn Phe His Ser
 210 215 220
 Glu Lys Gly Trp Arg Met Glu Tyr Lys Asn Glu His Ser Val Leu
 225 230 235 240
 Leu Thr Asp Tyr Glu Phe Leu Ala Lys Val Arg Gly Ala Glu Gly Thr
 245 250 255
 Ile Thr Ser Glu Asp Leu Phe Ser Val Ser Leu Glu Ile Thr Lys Thr
 260 265 270
 Thr Ser Ala Arg Ala Ser Ala Glu Lys Tyr Val Ile Lys Lys Val Ile
 275 280 285
 Arg His Arg Val Ala Gln Gly Lys Lys Leu Ile
 290 295 300

<210> 10592

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10592

Thr Phe Phe Leu Phe Trp Tyr Ser Trp Phe Ile Ser Pro Val Asp Phe
 1 5 10 15
 Gln Cys Arg Thr Pro Leu Ala Asn Leu Pro Thr Arg Cys Phe Gly Lys
 20 25 30
 Ile Leu Val Ala Leu Ala Val Met Leu Ala Gly Cys Ala Ile Gln Phe
 35 40 45
 Asp Gln Met Ala Tyr Thr Ala Leu Asn Ser Met Asn Val Val Leu Trp
 50 55 60
 His
 65

<210> 10593

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10593

Ser Asn Pro His Thr Glu Glu Ile Ala Met Lys Glu Gly Phe Tyr Trp
 1 5 10 15
 Ile Gln His Asn Gly Leu Val Gln Val Ala Tyr Tyr Thr Asp Gly Ile
 20 25 30
 Thr Glu Asp Leu Glu Thr Gly Gln Thr Ile Thr Gly Val Trp His Leu
 35 40 45
 Thr Arg Gly Asp Asp Ile Cys His Asn Gly Glu Ala Glu Val Ile Glu
 50 55 60
 Gly Pro Leu Ser Ala Pro Leu Lys
 65 70

<210> 10594

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 10594

Glu Asp Ser Gln Gln Tyr Glu Gly Gly Pro Met Ser Asp Pro Phe Ser
 1 5 10 15
 Gly Thr Gly Leu Ala Gly Leu Ala Leu Thr Gly Ala Ser Val Tyr Gly
 20 25 30
 Leu Leu Thr Gly Thr Asp Tyr Gly Val Val Phe Gly Ala Phe Ala Gly
 35 40 45
 Ala Val Phe Tyr Ile Ala Thr Ala Ala Asp Leu Ser Val Leu Arg Arg
 50 55 60
 Leu Ala Tyr Phe Phe Val Ser Tyr Ile Val Gly Ile Leu Cys Ser Gly
 65 70 75 80
 Leu Leu Gly Ser Lys Leu Thr Ser Trp Thr Gly Tyr Thr Glu Lys Pro
 85 90 95
 Leu Asp Ala Ile Gly Ala Val Ile Ala Ser Ala Leu Ala Val Gln Ile
 100 105 110
 Leu Thr Phe Leu Asn Lys Gln Asp Ile Gly Ser Leu Val Ala Leu Ile
 115 120 125
 Thr Arg Arg Gly Gly Ser Gly Gly Thr Lys
 130 135

<210> 10595

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 10595

Arg Ala Gly Glu Val Gln Val Val Leu Asn Asp Pro Thr Ala Thr Ile

1		5		10		15
Asn	Ala	Leu	Leu	Cys	Ala	Gly
		20		25		30
Arg	Gly	Asp	Ser	Arg	His	Arg
		35		40		45
Ile	Thr	Val	Thr	Tyr	Ser	Ala
		50		55		60
Tyr	Pro	His	Ser	Ser	Trp	Ala
		65		70		75
Ser	Val	Leu	Val	Ala	Lys	Gly
		85		90		95

<210> 10596

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 10596

Arg	Met	Asn	Ser	Leu	Asn	Arg	Leu	Arg	Pro	Ala	Lys	Gln	Phe	Arg	Cys
1			5					10					15		
Val	Pro	Leu	Val	Gly	Lys	Asp	Ser	Pro	Phe	Gly	Tyr	Val	Glu	Arg	Leu
		20					25					30			
Asn	Asn	Gln	Ala	Asp	Glu	Asn	Asn	Tyr	Gln	Pro	Val	Asn	Ala	Met	Val
		35				40						45			
Glu	Ala	Phe	Ala	Leu	Met	Asn	Glu	Lys	Gly	Arg	Glu	Glu	Trp	Leu	Lys
		50				55					60				
Leu	Ile	Gly	Asp	Ser	Glu	Thr	Thr	Glu	Ala	Ser	Pro	Ser	Thr	Ser	Ser
		65			70			75						80	
Asp	Gly	Ser	Pro	Arg	Pro	Asp	Ala	Leu	Tyr	Thr	Phe	Ala	Lys	Gly	Thr
				85				90					95		
Ile	Met	Ser	Ala	Ser	Ala	Leu	Leu	Ser	Asn	Ser	Ser	Val	Asn	Leu	Gln
			100					105					110		
Ser															

<210> 10597

<211> 244

<212> PRT

<213> Enterobacter cloacae

<400> 10597

Arg	Thr	Gly	Arg	Ile	Thr	Val	Met	Asn	Asn	Ser	Gln	Arg	Gln	Leu	Arg
1				5					10					15	
Leu	Leu	Asn	Leu	Val	Arg	Lys	Leu	Leu	Lys	Leu	Gly	Arg	Ser	Asn	Ser
		20					25					30			
Asn	Ala	His	Glu	Ala	Gly	Leu	Ala	Leu	Gln	Arg	Ala	Gln	Lys	Leu	Met
		35				40						45			
Ala	Arg	Tyr	Gly	Ile	Ser	Glu	Leu	Asp	Ala	Gly	Leu	Thr	Ser	Val	Arg
		50				55					60				
Glu	Ala	Ser	Ser	Arg	Thr	Ala	Pro	Ser	Asp	Ala	Glu	Lys	Val	Pro	Glu
		65			70				75					80	
Trp	Met	Val	Thr	Leu	Val	Arg	Gly	Val	Cys	His	Ala	Phe	Gly	Cys	Arg
				85				90					95		
Ala	Tyr	Tyr	Ser	Trp	Arg	Gln	Thr	Ser	Ala	Gly	Tyr	Arg	Arg	Ser	Val
			100				105					110			
Thr	Phe	Tyr	Gly	Phe	Ser	Glu	Lys	Pro	Glu	Ile	Ala	Ala	Tyr	Ala	Phe
		115				120						125			
Asp	Val	Leu	Thr	Arg	Gln	Leu	Lys	Asp	Ala	Thr	Asn	Ser	Tyr	Leu	Lys
		130				135				140					
Thr	Gln	Ser	Lys	Arg	Leu	Lys	Leu	Ala	Thr	Arg	Ala	Arg	Ala	Glu	
		145			150				155					160	

Gln Phe Arg Asp Gly Trp Val Cys Gly Val Arg Glu Val Ile Ser Ala
 165 170 175
 Thr Asp Ile Ser Ser Glu Glu Gln Gln Val Met Ser His Trp Leu Glu
 180 185 190
 Ser Arg Ser Met Lys Thr Val Thr Arg Glu Leu Lys Ala Cys Arg
 195 200 205
 Gly Ala Asp Thr Ala Arg Tyr Gln Gly Tyr Glu Ala Gly Gln Asn Ala
 210 215 220
 Arg Leu His Gln Gly Val Ser Gly Arg Gly Pro Ala Ala Ile Gly Tyr
 225 230 235 240
 Arg Gln Asp

<210> 10598

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 10598

Gly Gly Met Met Asn Ser Leu Ser Gln Ala Ala Asn Gly Leu Leu Met
 1 5 10 15
 Gln Leu Val Met Asp Leu Arg Ser Gly Tyr Leu Arg Arg Cys Glu Ser
 20 25 30
 Leu Gly Leu Asn Arg Glu Glu Met Gln Met Leu Gln Gly Leu Ser Leu
 35 40 45
 Glu Glu Leu His Tyr Leu Ser Gly Ser Glu Val Ser Ile Ile Ser Val
 50 55 60
 Gly Ile Asn His Gly Asn Leu Val Arg Met Leu Gln Gln Ala Arg Thr
 65 70 75 80
 Glu Gln Lys Arg Leu Gln Arg Ile Asp Arg Ala Leu Ala Leu Gly Gly
 85 90 95
 Ser Ile Glu Leu Met Ala Asn Tyr Phe Gly Leu Ser Ser Thr Asp Val
 100 105 110
 Ala Ala Arg Arg Arg Ile Ala Gly Ile Asp Val Arg Pro Gly Arg Gly
 115 120 125
 Asn Ala Leu Gly Asp Glu Glu Asn Ala Ala Leu Trp Arg Gln Trp Gln
 130 135 140
 Lys Ser Asp Val Glu Asp Ala Glu Ser Ala Asp Gly Leu Asp Val Met
 145 150 155 160
 Met Leu Ala Ala Glu Gln Met Asn Val Ser Leu Thr Ser Val Trp His
 165 170 175
 Ala Val Arg Gly Trp His Lys Thr Arg Gln Pro Ser Pro Ala Arg Thr
 180 185 190
 Pro Val Arg Lys Thr Ala
 195

<210> 10599

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 10599

Arg Ala Gly Arg Asp Asp Ala Gly Cys Arg Thr Asp Glu Arg Leu Ala
 1 5 10 15
 Asp Val Gly Leu Ala Cys Gly Pro Trp Leu Ala Gln Asp Pro Ala Ala
 20 25 30
 Phe Ser Gly Thr Asn Ala Gly Lys Glu Asp Gly Met Lys Tyr Arg Met
 35 40 45
 Val Ala Pro Gly Leu Arg Ala Pro His Gly Thr Pro Pro Gln Cys Cys
 50 55 60
 Gln Lys Ala Leu Arg Gln Val Arg Arg Phe Arg Gln Gly Ala Arg Asn

65				70				75				80			
Tyr	Thr	Arg	Leu	Asp	Glu	Lys	Gly	Cys	Gly	Tyr	Tyr	Lys	Ile	Asp	Leu
				85					90					95	
Gly	Pro	Phe	Trp	Arg	Leu	Leu	Ser	Arg	Asn	Glu	Gly	Arg	Thr	Trp	Leu
			100					105					110		
Leu	Leu	Ser	His	Glu	Arg	Tyr	Asn	Ser	Ala	Ile	Arg	Lys			
		115					120					125			

<210> 10600

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10600

Gln	Pro	Arg	Val	Glu	Gln	Gln	Pro	Ala	Gly	Asn	Gly	Ile	Met	His	Ile
1				5					10					15	
Ser	Gly	Lys	Gln	Gln	Ala	Val	Thr	Tyr	Pro	Ala	Ile	Ile	Pro	Pro	Gly
			20					25					30		
Thr	Gly	Arg	Lys	Ala	Gly	Ile	His	Phe	Ile	Gln	Arg	Ile	Ser	Asn	Gln
		35					40					45			
Ala	Phe	Cys	Arg	Gln	Thr	His	Tyr	Phe	Ser	Phe	Ser	Ala	Ala	Ile	Thr
	50					55					60				
Ala	Val	Leu	Asn	Cys	Gln	Tyr	Ala								
65					70										

<210> 10601

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 10601

Glu	Ser	Arg	Arg	Ala	Val	Ser	Ala	Pro	Ala	Pro	Pro	Leu	Arg	Leu	Ala
1				5					10					15	
Ala	Ser	Ile	His	Gly	Gln	Ser	Phe	Ser	Leu	Gln	Ala	Leu	Glu	Lys	His
			20					25					30		
Ala	Ala	Gln	Asp	Ser	Thr	Phe	Ser	Ser	Asn	Met	Gly	Met	Arg	Val	Gly
		35					40					45			
Phe	Tyr	Glu	Gly	Ala	Ser	Glu	Lys	Ser	Arg	Cys	Gly	Arg	Thr	Gly	Gln
	50					55					60				
Arg	Asp	Ala	Tyr	Phe	Met	Leu	Leu	Ala	Arg	Val	Ser	Thr	Leu	Trp	Arg
65					70					75				80	
Asn	Ala	Leu	Thr												
															85

<210> 10602

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 10602

Asn	Leu	Phe	Ala	Phe	Val	Ile	Glu	Met	Ser	Phe	Gln	Pro	Asp	Asp	Trp
1				5					10					15	
Leu	Phe	Arg	His	Cys	Lys	Ser	Phe	Val	Arg	Tyr	Ser	Val	Pro	Ala	Phe
			20					25					30		
Ile	Ser	Glu	Thr	Phe	Phe	Asn	Asn	Ala	Gly	Tyr	Asp	Arg	Val	Val	Phe
		35					40					45			
Ser	Ile	Phe	Arg	Ser	Trp	His	Lys	Asp	Phe	Lys	Leu	Cys	Arg	Cys	Ile
	50					55					60				
Arg	Leu	Lys	Gln	Asn	Gly	Ile	Glu	Thr	Arg	Arg	Ile	Lys	Gln	Ser	Ala
65					70					75				80	
Phe	Arg	Ile	Asn	Glu	Leu	Asn	Pro	Gly	Ala	Phe	Val	Val	Arg	Ile	Leu

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<210> 10603
<211> 89
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10604
<211> 76
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10605
<211> 175
<212> PRT
<213> Enterobacter cloacae
```

<400>	10605														
Pro	Val	Asp	Ser	Phe	Cys	His	Asp	Tyr	Ser	Arg	Thr	Asn	Arg	Arg	Asn
1				5					10					15	
His	Ile	Met	Thr	Lys	Tyr	Tyr	Asp	Arg	Ser	Gly	Ile	Glu	Ile	Ser	Ser
			20					25					30		
Ala	Lys	Ile	Arg	Cys	Val	Asp	Ser	Val	Lys	Gly	Thr	Ala	Glu	Tyr	Thr
			35				40					45			
Phe	Arg	Ile	Val	Cys	Asp	Lys	Cys	Asn	Gly	Arg	Gly	Glu	Arg	Lys	His
	50					55					60				
Phe	Tyr	Arg	Ser	Arg	Cys	Met	Ala	Cys	Lys	Ala	Thr	Gly	Tyr	Ser	Leu
65					70					75					80
Glu	Thr	Thr	Arg	Thr	Ala	Tyr	Thr	Leu	Asn	Ala	Leu	Tyr	Arg	Ile	Asn

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<210> 10606
<211> 402
<212> PRT
<213> Enterobacter cloacae
```

Ile 1	Ala	His	Pro	Leu 5	Arg	Leu	Lys	Met	Lys 10	Leu	Phe	Ser	Ile	Ser 15	Ser
Arg	Asp	Thr	Ser 20	Met	Asp	Ala	Met	Phe 25	Tyr	Ile	Gln	Ala	Ser 30	Thr	Lys
Gln	Gln	Ala 35	Ser	Tyr	Ile	Phe	Ser 40	Thr	Leu	Ser	Pro	Lys 45	Pro	Ile	Ala
Asn	Cys 50	Gln	Leu	Thr	Asp	Leu 55	Gln	Asn	Glu	Thr	Val 60	Val	Pro	Ser	Ile
Ser 65	Pro	Ile	Ser	Leu	Ser 70	Leu	Asn	Pro	Trp	Ser 75	Ile	Asn	Ser	Gln	Ser 80
Arg	Thr	Arg	Glu 85	Leu	Arg	Met	Ala	Thr	His 90	Gly	Leu	Asn	Leu 95	Ile	Cys
Ala	Val	Thr	Asp 100	Glu	His	Thr	Arg	Gln 105	Ile	Val	Asp	Phe	Cys 110	Asp	Asn
Leu	Gly	Gln 115	Gln	Leu	Lys	Asp	Pro 120	Asp	Asp	Lys	Ser	Ala 125	Trp	Val	Lys
Leu	Ile 130	Asn	Ser	Glu	Cys	Ala 135	Leu	Leu	Asn	Ser	Pro 140	Arg	Leu	Tyr	Pro
Val 145	Leu	Leu	Glu	Pro	Asp 150	Thr	Pro	Ala	Gln	Phe 155	Glu	Ile	Phe	Val	Pro 160
Ala	Pro	Glu	Asp 165	Gly	Glu	His	Asp	Thr 170	Val	Ile	Ala	Ser	Val 175	Val	Lys
Glu	Cys	Phe	Gly 180	Asp	Glu	Cys	Arg	Tyr 185	Arg	Val	Thr	Asp	Lys 190	Ala	Phe
Ala	Met	Ser 195	Glu	Lys	Pro	Val	Ile 200	Arg	Leu	Glu	Ala	His 205	Phe	Asn	Asp
Lys	Arg 210	Glu	Lys	Val	Leu	Glu 215	Leu	Thr	Phe	Ser	Cys 220	Phe	Asn	Leu	Ser
Leu 225	Ser	Ala	Ser	Val	His 230	Glu	Asn	Gln	Leu	Arg 235	Gln	Ile	Leu	Leu	Leu 240
Cys	Glu	Asp	Phe 245	Gly	Val	Arg	Leu	Gln	Gly 250	Arg	Ala	Gly	Ala 255	Ser	Cys
His	Val	Asn	Met 260	Arg	Ser	Ala	Tyr	Arg 265	Arg	Leu	Ala	His 270	Val	Gly	Thr
Gly	Ser	Arg 275	Pro	Gly	Asp	Asp	Ser 280	Asp	Val	Arg	Val	Tyr 285	Thr	Ser	Leu
Lys	Glu 290	Glu	Lys	Asp	Val	Lys 295	Arg	Leu	Leu	Asp	Lys 300	Ser	Thr	Arg	Gly
Ser 305	Glu	Leu	Val	Pro	Ala 310	Arg	His	Gly	Gln	Gln 315	Phe	Asn	Gly	Val	Leu 320
Val	Asn	Ala	Thr 325	Pro	Ala	Ser	Ala	Thr	Thr 330	Gly	Phe	Ile	Tyr	Leu	Ser 335
His	Asp	Phe	Pro	Glu	Gly	Gln	Phe	Met	Met	Thr	Ala	Glu	Val	Leu	His

```

          340          345          350
Val Gly Ile Thr Pro Gly Gly Ile Tyr Tyr Ile Glu Thr Leu Asp Gly
          355          360          365
Tyr Arg Phe Ile Val Thr Ala Phe Glu Lys Gly Leu Met Asn Gly Leu
          370          375          380
Arg Glu Phe Ile Ala Ala Asn Glu Glu Tyr Phe Lys Tyr Tyr Arg Trp
385          390          395          400
Ser

```

<210> 10607
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 10607
Pro Gln Thr Val Leu Glu Ala Gln Met Ser Glu Lys His Phe Ile Val
1          5          10          15
Lys Ile Gln Asn Arg Asn Gly Asp His Glu Asn Ser Tyr Val Arg Leu
          20          25          30
Leu Val Ser Asp Cys Glu Lys Asn Ala Cys Gln Thr Ala Leu Ile Ser
          35          40          45
Glu Cys His Gly Glu Leu Glu Gln Leu Ser Phe Glu Asp Gly Gly Val
          50          55          60
Tyr Asp Tyr Asn Gly Glu Asn His Tyr Ser Val Arg Ser Cys Val Glu
65          70          75          80
Val Ala Pro Glu Asp Val Ala Thr Leu Gln Arg Phe Leu
          85          90

```

<210> 10608
 <211> 147
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 10608
Ser Leu Ser Tyr Thr Ser Lys Ile Phe Ile Ile Phe Ser Ser Asp Leu
1          5          10          15
Leu Ala Arg Ile Leu Asp Ser Val Ser Phe Thr Tyr Gly Lys Ser Phe
          20          25          30
Glu Asn Glu Val Asn Gly Met His Ser Gln Asp Pro Ile Thr Lys Leu
          35          40          45
Thr Gln Thr Leu Gln Arg Asp Asp Gly Ser Gln Val Arg Ile Val Ala
          50          55          60
Gln Arg Gly Tyr Gly Ser Gly Leu Thr Ala Ser Leu Asp Val Tyr Val
65          70          75          80
Leu Arg Arg Asp Ser Ser Glu Ser Asn Trp Ser Leu Cys Gly Lys Asp
          85          90          95
Pro His Pro Glu Trp Arg Lys Met Ser Val Asp Glu Tyr Gln Lys Phe
          100          105          110
Gly Arg Ser Glu Met Leu Arg Tyr Ala Thr Pro Gly Glu Ile Leu Arg
          115          120          125
Val Ala Ser Ala Ile Gly Gln Pro Met Ser Phe Leu Asp Gly Asn Pro
130          135          140
Ala Phe
145

```

<210> 10609
 <211> 238
 <212> PRT
 <213> Enterobacter cloacae

<400> 10609

```

Ile Ile Lys Glu Ser Thr Val Ala Asp Asn Tyr Thr Gln Ala Ser Phe
1      5      10      15
Ile Ile Pro Cys Thr Gln Glu Gln Ala Lys Met Ala Gln Glu Ala Ile
20     25     30
Thr Phe Val Thr Glu Ala Glu Ile Ala Glu Gly Glu Arg Leu Leu Asp
35     40     45
Lys Pro Leu Thr Asp Cys Ser Leu Thr Glu Lys Leu Ile Leu Ser Ile
50     55     60
Ile Glu Asn His Pro Glu Tyr Asp Pro Ser Glu Pro Ser Phe Gly Gln
65     70     75     80
Pro Ser Cys Pro Asp Cys Asn Tyr Glu Leu Leu Phe Ala Thr Glu Val
85     90     95
Thr Ser Ser Gly Leu Ala Val Phe His Gly Glu Thr Ile Asp Leu Asp
100    105    110
His Ala Ile Cys Leu Thr Thr Ala Val Leu Ser Val Phe Asp Leu Ser
115    120    125
Glu Met Val Thr Ile Thr Ala Ala Phe Thr Cys Ser Lys Ser Arg Thr
130    135    140
Asp Glu Phe Gly Gly Met Thr Ile Leu Val Thr Lys Asp Thr His Tyr
145    150    155    160
Tyr Gln Asp Gly Cys Gln Phe Ser Arg Leu Met Asn Glu Ala His Lys
165    170    175
Ala Gly Ile Gln Tyr Ala Leu Cys Lys Val Thr His Tyr His Gly Glu
180    185    190
Ser Ser Tyr Val Ala Ser Tyr Val Leu Ser Cys Asp Val Ala Asp Ser
195    200    205
Ala Gln Glu Val Val Asn Lys Arg Leu Lys Ala Cys Ala Gly Lys Glu
210    215    220
Pro Glu Glu Ser Ser Pro Arg Gly Trp Lys Glu Pro Arg Tyr
225    230    235

```

<210> 10610

<211> 545

<212> PRT

<213> Enterobacter cloacae

<400> 10610

```

Arg Ala Leu Thr Leu Pro Val Tyr Phe Ser Gly Leu Asp Arg Tyr Ile
1      5      10      15
Thr Leu Ser Leu Leu Lys Ser Asp Gly Ser Leu Ile Trp Ser Thr Lys
20     25     30
Ser Ser Leu Val Thr Val Asp Asp Arg Thr Thr Ser Ser Thr Gly Phe
35     40     45
Asp Tyr Tyr Gly Lys Thr Leu Thr Val Pro Ala Met Gly Glu Asp Ser
50     55     60
Phe Thr Leu Arg Glu Val Ile Thr Asp Leu Gln Gly Lys Glu Val Ser
65     70     75     80
Arg Gln Asp Tyr Pro Leu Ala Ile Asp Arg Thr Pro Pro Ala Thr Gly
85     90     95
Thr Ile Ser Tyr Thr Arg Asn Gly Trp Asn Phe Gly Ser Glu Ala Ile
100    105    110
Phe Thr Ser Val Pro Ala Gly Met Gln Tyr Ala Ser Val Gln Ala Leu
115    120    125
Val Phe Asn Gly Leu Ser Asp Lys Gly Ser Gly Leu Ala Asn Ala Glu
130    135    140
Tyr Phe Ile Thr Asp Ala Ala Gly Val Glu Arg Lys Lys Pro Ala Glu
145    150    155    160
Ile Asn Thr Val Glu Gly Ser Val Thr Val Gln Val Ala Asp Ala Ser
165    170    175
Ser Asn Ala Leu Ala Pro Glu Asn Arg Ser Glu Tyr Lys Val Gly Ile

```

545

<211> 97

<213> Enterobacter cloacae

Asn	Ala	Ser	Val	Leu	His	Pro	Ala	Phe	Asn	Glu	Gly	His	Trp	Leu	Phe
1				5					10					15	
Ile	Ala	Glu	Gln	Asp	Asn	Arg	Tyr	Ile	Glu	Val	Val	Cys	Ile	Leu	Ser
			20					25					30		
Leu	Ala	Ser	Glu	Ser	Gly	Glu	Gln	His	Ile	Asp	Val	Phe	Ile	Asn	Met
		35					40					45			
Phe	Glu	Asp	Pro	Ile	Asp	Asp	Val	Ile	Ser	Arg	Asn	Ile	Glu	Thr	Lys

50		55		60
Thr Phe Ala Thr Leu Tyr Lys Tyr Ile Glu Arg Ile Pro Phe Thr Pro				
65	70	75	80	
Gly Val Lys Lys Glu Phe Leu Ser Ser Ile Glu Asn Ile Asn Phe Ser				
85	90	95		

<210> 10612
 <211> 111
 <212> PRT
 <213> Enterobacter cloacae

<400> 10612
Arg Trp Thr Asp Met Lys Ser Asp Thr Glu Met Val Ser Pro Ile Glu
1 5 10 15
Leu His Ile Gly Asp His Val Gln Arg His Gly Ala Leu Phe Glu Val
20 25 30
Met His Ile Val Glu Ser Glu Cys Asp Ile Pro Gly Gly Ile Arg Val
35 40 45
Ala Ala Cys Ile Ser Arg Val Ile Gly Asp Val Thr Gly Asn Ile Pro
50 55 60
Arg Gly Trp Leu Glu Thr Pro Lys Arg Met Ala Glu Arg Gly Val Lys
65 70 75 80
Trp Ala Thr Ser Leu Pro Glu Gly Leu Tyr Phe Asn Ile Gln Gly Asn
85 90 95
Ala His Ala Lys Val Ser Arg Val Ile Arg Asn Val Thr Asn
100 105 110

<210> 10613
 <211> 267
 <212> PRT
 <213> Enterobacter cloacae

<400> 10613
Leu Ser Val Lys Ala Ile Ile Lys Pro Lys Thr Pro Leu Ser His Thr
1 5 10 15
Leu Val Tyr Arg Thr Gly Ile Ile Arg Leu Leu Ala Cys Leu Pro Arg
20 25 30
Ile Leu Val Gly Asn Ser Gly Thr Lys Pro Leu Met Ala Pro Leu Lys
35 40 45
Ile His Ser Thr Leu Pro Val Ile Ala Phe Thr Phe Asn Gly Ala Asp
50 55 60
Ala Glu Arg Lys Leu Val Lys Gly Leu Glu Asn Leu Arg Ile Ser Val
65 70 75 80
Thr Asp Ala Ser Gly Asp Ala Ser Leu Ile Ser Leu Gln Leu Ala Gly
85 90 95
Gly Pro Asn Ser Glu Lys Val Thr Leu Ala Phe Thr Pro Leu Ser Lys
100 105 110
Asp Val Phe Ile Pro Glu Tyr Pro Arg Ile Phe Pro Asn Thr Asp Glu
115 120 125
Ser Gly Gln Met Tyr His Leu Glu Ala Leu Ala Ile Asp Glu Ser Gly
130 135 140
Asn Arg Thr Thr Lys Thr Leu Asn Phe Thr Tyr Gln Pro Ala Asn Leu
145 150 155 160
Ile Met Leu Asp Asn Leu Lys Thr Leu Ala Thr Ala Val Ala Leu Lys
165 170 175
Ala Thr Asp Asn Thr Pro Leu Ala Ile Ile Arg Thr Ser Val Leu Arg
180 185 190
Arg Gln Asp Gly Ser Ile Ile Thr Gly Gln Leu Asn Gly Thr Leu Thr
195 200 205

Val	Gln	Lys	Asn	Ala	Gln	Phe	Gly	Val	Thr	Val	Ala	Gly	Val	Thr	Val
210						215					220				
Gln	Pro	Gly	Glu	Thr	Lys	Ser	Leu	Ser	Leu	Asp	Leu	Gly	Asn	Gly	Glu
225					230					235					240
Glu	Arg	Thr	Tyr	Pro	Val	Thr	Pro	Ala	Val	Ser	Gly	Gln	Ser	Gly	Thr
				245					250					255	
Ala	Thr	Phe	Thr	Ile	Glu	Phe	Pro	Gln	Thr						
			260					265							

<210> 10614

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 10614

His	Glu	Tyr	Glu	Arg	Ser	Arg	Val	Met	Ser	Asn	Asn	Thr	Glu	Val	Ile
1				5					10				15		
Ser	Cys	Asp	Leu	Phe	Ser	Thr	Leu	Ser	Ser	Leu	Asn	Phe	Ser	Thr	Glu
			20					25					30		
Asp	Ile	Thr	Gly	Leu	Thr	Pro	Ala	Asn	Phe	Arg	Lys	Gly	Ala	Phe	Leu
			35				40					45			
His	Ala	Lys	Ile	Ser	Ala	Ser	Gln	Ala	Thr	Arg	Ala	Thr	Asp	Ile	Ser
						55					60				
Ile	Gln	Leu	Leu	Thr	Asp	Arg	Val	Ser	Gly	Glu	Met	Asn	Tyr	Val	Ile
65					70					75				80	
Val	Ile	Gly	Arg	His	Glu	Gly	Leu	Leu	Gln	Ser	Glu	Ala	Ile	Asp	Pro
				85					90					95	
Asn	Ala	Asp	Lys	Gln	Tyr	Arg	Glu	Asn	Arg	Tyr	Ser	Arg	His	Phe	Ile
			100					105					110		
Ser	Val	Thr	Asp	Ala	Asn	Thr	Lys	Ala	Leu	Lys	Lys	Thr	Cys	Lys	Val
			115				120					125			
Met	Lys	Thr	Tyr	Ile	Lys	Glu	Gln	Ala	Phe	Lys	Pro	Asn	Thr	Trp	Gly
			130			135					140				
His	Ser	Phe	Ile	Lys	Gly										
145					150										

<210> 10615

<211> 216

<212> PRT

<213> Enterobacter cloacae

<400> 10615

Val	Gln	Arg	Asn	Asn	Ile	Thr	Gly	Ile	Leu	Val	Ala	Leu	Met	Lys	Ser
1				5					10					15	
Cys	Phe	Ser	Asp	Leu	Pro	Val	Lys	Asp	Gly	Thr	Ser	Gly	Thr	Trp	Lys
			20					25					30		
Leu	Asp	Thr	Phe	Glu	Ile	Thr	Ala	Asp	Lys	Ala	Met	Ser	Leu	Ala	Leu
			35				40					45			
Arg	Ala	Glu	Tyr	Thr	Gly	Asn	Thr	Asp	Glu	Phe	Ile	Pro	Pro	Gly	Arg
						55					60				
Tyr	Arg	Arg	Leu	Ser	Asn	Gly	Trp	Asp	Val	Val	Met	Ser	Asn	Thr	Pro
65					70					75				80	
Met	Glu	Ile	Arg	Thr	Cys	Gln	Asp	Phe	Leu	Glu	Arg	Ala	Thr	Gly	Arg
				85					90					95	
Val	Leu	Ile	Asn	Gly	Leu	Gly	Leu	Gly	Met	Val	Leu	His	Ala	Ile	Leu
			100					105					110		
Gln	Lys	Glu	Asp	Val	Thr	His	Val	Thr	Val	Ile	Glu	Lys	Glu	Gln	Asp
			115				120					125			
Val	Ile	Asn	Leu	Val	Ala	Ala	Ser	Phe	Ala	Asn	Asp	Pro	Arg	Val	Glu
			130			135					140				
Ile	Ile	His	Ala	Asp	Ala	Met	Met	Tyr	Cys	Pro	Pro	Ala	Gly	Val	Thr

145		150		155		160									
Tyr	Asn	Ala	Cys	Trp	His	Asp	Ile	Trp	Pro	Asp	Phe	Ala	Thr	Ala	Asn
			165						170						175
Leu	Ser	Gln	Met	Asp	Lys	Leu	Glu	Ile	Lys	Tyr	Arg	Asp	Ile	Cys	Glu
			180					185					190		
Trp	Gln	Gly	Ser	Trp	Gly	Arg	Glu	Glu	Cys	Glu	Gln	Lys	His	Ile	Glu
		195					200					205			
Phe	Gln	Asn	Leu	Gly	Ala	Asp									
	210					215									

<210> 10616

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 10616

Asn	Ser	Gln	Gly	Gly	Ile	Arg	Tyr	Trp	Pro	Ala	Asn	Glu	Leu	Pro	Arg
1				5					10					15	
Trp	Gln	Pro	Cys	Val	Leu	Ala	Arg	Thr	Leu	Ala	Thr	Pro	Phe	Lys	Pro
			20					25					30		
Ala	Ser	Phe	Phe	Leu	Arg	Ala	Thr	Asp	Gly	Glu	Lys	Met	Asn	Leu	Asn
		35					40					45			
Glu	Arg	Ser	Thr	Ser	Ala	Ala	Thr	Pro	Asp	Leu	Ser	Arg	Leu	Tyr	Leu
	50					55					60				
Ile	Ser	Gly	Arg	Ile	Met	Phe	Asp	Asp	Asp	Asp	Gln	Ala	Tyr	Leu	Val
65				70					75					80	
Glu	Ala	Asp	Ser	Pro	Gly	Asp	Ala	Glu	Glu	Ala	Phe	Arg	His	His	Ile
				85				90					95		
Ala	Asp	Ser	Ala	Asp	Asp	Leu	Glu	Lys	Val	Ile	Ile	Val	Ser	Ser	Thr
			100					105					110		
Ser	Phe	Ala	Ser	Ala	His	Ser	Ser	Arg	Val	Ile	Cys	Arg	Pro	Ala	Val
		115					120					125			
Lys															
	130														

<210> 10617

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 10617

Asn	Met	Arg	Leu	Thr	Tyr	Glu	His	Gln	Pro	Thr	Phe	Trp	Asp	Phe	Arg
1				5					10					15	
Ser	Thr	Arg	Tyr	Thr	Ser	Phe	Cys	Leu	Ile	Asn	His	Gln	Met	Ile	Asn
			20					25					30		
Glu	Arg	Met	Asn	Thr	Met	Tyr	Thr	Leu	Cys	Ile	Pro	Glu	Asn	Lys	Val
		35					40					45			
Tyr	Met	Ala	Tyr	Tyr	Thr	Asp	Leu	Ser	Ile	Asn	Tyr	Leu	Leu	Asp	Val
	50					55				60					
Tyr	His	Val	Tyr	Leu	Ser	Pro	Tyr	Leu	Ser	Glu	Leu	His	Ser	Leu	
65				70					75					80	

<210> 10618

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10618

Cys	Val	Ile	Thr	His	Lys	His	Ile	Thr	Ser	Gly	Val	Ile	Asp	Val	Ser
1				5					10					15	
Thr	His	Lys	Asn	Glu	Arg	Arg	Gly	Asn	Pro	Pro	Phe	Gln	Phe	Arg	Leu

```

      20      25      30
Asp Pro Glu Leu Arg Glu Met Met Glu Arg Ala Gln Gln Gln Asp Gly
      35      40      45
Asp Glu Ser Leu Ala Ala Trp Leu Lys Arg Ile Ile Arg Lys Glu Leu
      50      55      60
Gln Gln Arg Gly Ile Glu Pro Lys Gly
65      70

```

<210> 10619

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 10619

```

Asn Gly Lys Leu Ser Cys Arg Gly Gly Ser Gln Pro Gly Gln Ser Gly
1      5      10      15
Ile Gly Ile Ser Gly Glu Ser Gln Gly Gly Gln Ala Met Thr Ala Ile
      20      25      30
Tyr Asn Leu Val Arg Cys Ser Asp Gly Lys Thr Val Phe Ser Phe Pro
      35      40      45
Ala Gly Gly Arg Tyr Leu Val Asp Thr Ser Asn Gly Leu Gln Ser Met
      50      55      60
Arg Pro Leu Met Asp Asn Glu Ile Leu Phe Thr Val Glu Ser Ala Ala
65      70      75      80
Arg Phe Leu Lys Lys Ile Gly Tyr Gln Val Ile Pro Pro Ala Ser
      85      90      95

```

<210> 10620

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10620

```

Pro Gly Asn His Pro Asn Leu Ser Pro Ala Gly Glu Gln Gly Arg Gly
1      5      10      15
Tyr Pro Asp Thr Pro Arg Tyr Gly Gly Lys Arg Met Lys Lys Pro Thr
      20      25      30
Gln Asn Glu Ser Ile Ala Met Leu Thr Thr Ser Ala Gly Gln Ala Leu
      35      40      45
Glu Tyr Ser Arg Gln Ala Leu Ala Val Leu Asp Met Trp Ile Asp Thr
      50      55      60
Leu Ala Pro Asp Asp Glu Met Glu Ser Phe Arg Val Ala Ala Val His
65      70      75      80
Ser Leu Val Ser Gln Ala Ser Glu Tyr Leu Val Lys Val Arg Glu Val
      85      90      95
Arg Pro

```

<210> 10621

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 10621

```

Ile Ala Ile Asn Cys Ser Ile Val Ala Ile Asn Gly Ile Leu Thr Ile
1      5      10      15
Ala Ile Thr Gly Gly Ile Met Thr Lys Val Asn Val Lys Pro Val Leu
      20      25      30
Leu Asn Arg Glu Gln Ile Gln Ala Leu Lys Thr Ile Gln Glu Arg Glu
      35      40      45
Arg Gln Lys Ser Gly Met Gly Ile Ala Pro Ser Ile His Ala Val Ala

```

50 55 60
 Arg Lys Val Phe Asp Ala Gly Leu Ser Lys Met Glu Ala Gly Gln
 65 70 75 80

<210> 10622

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 10622

Arg Lys Met Ala Met Asn Lys Lys Ala Glu Arg Arg Arg Asp Phe Tyr
 1 5 10 15
 Pro Ala Glu Ser Met Leu Asn Gln Pro Phe Gly Ser Ile Pro Arg Cys
 20 25 30
 Trp Ser Ser Leu Arg Ile Ile Leu Leu Ser His Ala Ala Arg Asp Ser
 35 40 45
 Ser Pro Ser Cys Cys Cys Ala Arg Ser Ile Ile Ser Arg Ser Ser Gly
 50 55 60
 Ser Ser Leu Asn Trp Asn Gly Gly Leu Pro Arg Leu Ser Phe Leu Cys
 65 70 75 80
 Val Asp Thr Ser Ile Thr Pro Asp Val Met Cys Leu Cys Val Met Thr
 85 90 95
 His Tyr Thr Gln Glu Met Lys Lys Thr Thr Pro Arg Ser Ala Gly Thr
 100 105 110
 Leu Ser Gly Arg Leu Thr Lys Thr Leu Val Glu Val Thr Leu Trp Leu
 115 120 125
 Ala Leu Ser Leu Pro Lys His Ala Leu Asn Leu His Gly Val Phe Ser
 130 135 140
 Pro Trp Val Asn Ser Gln Ile Arg Ser Ser Met Leu Leu Leu Pro Pro
 145 150 155 160
 Ser Ala Lys Pro Ala Lys Lys Arg Gln Lys Asp Val Ser Val Phe Trp
 165 170 175
 Arg Val Asp Phe Val Leu Arg Arg Cys Ser Met Phe Asn Leu Gln Thr
 180 185 190
 Leu Thr Ala Lys Ala Arg Glu Leu Arg Gly Asn Val Val Lys Ala Thr
 195 200 205
 Thr Thr Lys Gly Thr Arg Thr Met Thr Pro Val Tyr Glu Arg Glu Glu
 210 215 220
 Gln Arg Lys Leu Arg Glu Arg Ile Gln Gln Thr Gln Pro Asp Trp Val
 225 230 235 240
 Leu Leu Trp Trp Asp Ile Ala Thr Val Thr Gly Trp Arg Thr Ser Asp
 245 250 255
 Val Cys Asn Phe Arg Tyr Ser Cys Ile Asn Trp Glu Thr Gly Ile Ala
 260 265 270
 Thr Ile Ile Val Ala Lys Gln Thr Lys Ala Ala Glu Ala Arg Ala Thr
 275 280 285
 Arg Lys Gly Ile Glu Ile Val Arg Gln Gln Arg Lys Asp Ala Ala Arg
 290 295 300
 Leu Ala Gly Asp His Ile Gly Tyr Met His Trp Asp Ser Val Ser Cys
 305 310 315 320
 Asp Glu Leu Ala Ala Gly Met Thr Glu Glu Glu Gln Ala Ile Val Phe
 325 330 335
 Glu Leu Val Ala Lys Ala Glu Val Lys His Asp Thr Lys Gln Leu Pro
 340 345 350
 Pro Gly Ile Ile Lys Arg Leu Arg Glu Arg Met Glu Arg Asn Leu Ile
 355 360 365
 Gly Asp Asp Leu Val Phe Ser Arg Ser Gln Ile Glu Ser Asn Arg Cys
 370 375 380
 Gln Ser Leu Glu Gly Ser Val Ser Arg Gln Thr Ile Trp Lys Lys Leu
 385 390 395 400
 His Asn Val Met Val Trp Phe Thr Arg Val Val Asn Lys Arg Leu Arg

			405					410				415			
Leu	Ser	Ala	Tyr	Ser	Ser	Arg	Lys	Ile	Ala	Ala	Phe	Asn	Leu	Met	Ser
			420					425					430		
Ala	Gly	Gly	Glu	Gln	Gly	Leu	Leu	Val	Ala	Ser	Glu	Met	Leu	Gly	His
			435				440					445			
Ser	Asn	Pro	Ala	Ile	Thr	Arg	Thr	Tyr	Leu	Gln	Leu	Gly	Ser	Lys	Ala
			450			455					460				
Ala	Ala	Ile	Gln	Thr	Arg	Leu	Ala	Met	Glu	Val	Asn	Ala			
465					470					475					

<210> 10623

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 10623

Thr	Gln	Asn	Glu	Lys	Lys	Ala	Ala	Ile	Ser	Lys	Lys	Leu	Ser	Ala	Ala
1				5				10						15	
Phe	Val	Asp	Glu	Phe	Tyr	Leu	Trp	Gln	Ala	Gly	Asn	Leu	Ser	Cys	Asp
			20					25				30			
Ser	Ser	Arg	Leu	Leu	Cys	Pro	Ser	Leu	Arg	Lys	Tyr	Phe	His	His	Phe
			35				40					45			
Val	Ile	Ala	Ile	Phe	Leu	Leu	Leu	Glu	Phe	Lys	Met	Lys	Arg	Thr	Leu
			50			55					60				
Asn	Gln	Leu	Thr	Leu	Val	Ile	Gln	Gln	Pro	Leu	Pro	Ala	Asp	Asn	Asn
					70					75				80	
Gly	Thr	Ile	Ile	Ala	Ala	Met	Glu	Ser	Arg	His	Val	Asn	Ile	Gln	Ser
				85				90					95		
Val	Leu	Ile	Ala	Ser	Gln	Arg	Leu	Arg	Gly	Asn	Asp	Pro	Thr	Gly	Glu
			100				105						110		
Leu	Ala	Ala	Gln	Ile	Arg	His	Gln	Arg	Ile	Ala					
			115				120								

<210> 10624

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10624

Asn	Arg	Arg	Asp	Ala	Ala	Arg	Cys	Val	Arg	Tyr	Cys	Thr	Gly	Ile	Leu
1				5				10						15	
Met	Ser	Arg	Arg	Lys	Phe	Leu	Ile	Leu	Trp	His	Ile	Tyr	Ala	Phe	Ser
			20					25					30		
Tyr	Leu	Cys	Ile	Phe	Ile	Ala	Phe	Phe	Ala	Val	Val	Pro	Glu	Val	Lys
			35				40					45			
Leu	Phe	Asp	Tyr	Leu	Ser	Ile	Lys	Tyr	Gly	Phe	Ile	Asp	Ile	Glu	Arg
			50			55					60				
Trp	Asp	Ile	Tyr	Tyr	Ser	Ile	Phe	Ala	Met	Ser	Thr	Thr	Val	Ile	Ile
					70				75					80	
Asn	Phe	Leu	Phe	Ile	Leu	Leu	Thr	Phe	Arg	Phe	Thr	Ser	Lys	Thr	Lys
				85				90						95	

Lys Lys

<210> 10625

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10625

Ser	Ile	Asn	Glu	Pro	Glu	Phe	Met	Gly	Val	Ala	Asp	His	His	Glu	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

```

1           5           10           15
Ser Phe Glu Pro Pro Ser Pro Val Lys Glu Pro Asp Ile His Val Ile
                20                25                30
Leu Asp Gly Lys Glu Arg Ala Asn Val Thr Val Thr Ser Gly Leu Glu
                35                40                45
Val Glu Leu Leu Glu Ile Pro Val Ala Val Ile Ser Met Ile Val Glu
                50                55                60
Pro Leu Ile Val Ala His
65                      70

```

<210> 10626

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10626

```

Pro Thr Val Ile Val Lys Arg Asp Ile Asp Lys Ala Leu Ser His Phe
1           5           10           15
Phe Ser Asn Ile Arg Ile Ala Tyr Arg Tyr Lys Lys Ile Gly Glu Pro
                20                25                30
Arg Leu Leu Ser Cys Val Tyr Ala Arg Ile Ile His Ser His Asn Cys
                35                40                45
Val Ala Ser Thr Ile Gly Ser Asp Asp Ile Ser Gly Lys Thr Ile Ser
                50                55                60
Leu Pro Ala Gly Lys Thr Ala His Ile Ser Thr Thr Pro
65                      70                      75

```

<210> 10627

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10627

```

His Gln Asp Asp Pro Gly Val Ser Glu Asn Thr Lys Ser Thr Arg Trp
1           5           10           15
Tyr His Tyr Arg Leu Ala Ala Gly Lys Leu Tyr Ile Asn Val Glu Phe
                20                25                30
Ala Pro Lys Ser Pro Cys Gln Ser Val Ile Ile Thr Tyr Arg Ile Asn
                35                40                45
Asn Asp Tyr Thr Val Glu Gln Phe Ala Glu Leu Leu Gln Ala Ala
                50                55                60

```

<210> 10628

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 10628

```

Ser Trp Pro Ala Asp Cys Thr Trp Arg Phe Gly Arg Tyr Val Arg Tyr
1           5           10           15
Ser Gly Val Lys Met Ala Glu Ser Glu Thr Asp Gly Ser Ser Asp Val
                20                25                30
Met Met Gly Leu Gly Glu Ser Phe Ile Phe Cys Ile Ser Thr Val Ala
                35                40                45
Tyr Asn Ser Leu Gln Arg Ser Asp Glu Trp Arg Trp Val Glu Gln Thr
                50                55                60
Arg Phe Gly Lys Asn Asp Ser Leu Gln Cys Thr Gly Arg Pro Lys Pro
65                      70                      75                      80
Thr Ile Thr Leu Ala Gly Lys Thr His Ala Leu Phe Leu Asp Gly Ala
                85                      90                      95
Gly Val Gly Gln Ile Glu Leu Leu Arg Gln Leu Gly Asn Thr Tyr Glu

```

```

          100          105          110
Pro Gln Gln Leu Val Met Gly Thr Gly Glu Val Met Gly Tyr Trp Thr
      115          120          125
Ile Thr Ala Leu Ser Glu Asn Gln Thr Ser Phe Leu Ala Lys Gly Ala
      130          135          140
Pro Lys Val Gln Glu Phe Ser Leu Ser Leu Lys Tyr Tyr Gly Glu Thr
145          150          155          160
Leu Thr Ala Ser
          165

```

<210> 10629

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 10629

```

Leu Leu Leu Arg Phe Lys Met Thr Asp Ser Leu Leu Glu Thr Ile Glu
1          5          10          15
Ile Pro Leu Ser Arg Pro Tyr Glu Ile Asp Gly Val Ala His Asp Lys
      20          25          30
Leu Thr Met Phe Glu Pro Lys Leu Arg Asp Lys Ile Leu Tyr Ser Lys
      35          40          45
Asp Lys Gly Thr Glu Asp Glu Lys Ser Ala Arg Met Ile Ala Arg Leu
      50          55          60
Leu Asn Val Lys Asp Thr Asp Leu Met Asn Leu Pro Ser Cys Asp Phe
65          70          75          80
Ala Arg Leu Glu Asp Ala Phe Asn Glu Met Val Lys Asp Pro Val Asp
      85          90          95
Arg Asn Met Lys Leu Phe Ser
          100

```

<210> 10630

<211> 356

<212> PRT

<213> Enterobacter cloacae

<400> 10630

```

Gly Tyr Ala Ile Met Gly Val Asn Asp Ser Arg Ile Asn Thr Gly Glu
1          5          10          15
Gln Pro Trp Leu Pro Asn Phe Phe Ile Ser Val Gly Asp Thr Asp Ile
      20          25          30
Thr Glu Lys Val Arg Lys Gly Leu Ile Asn Ile Ser Leu Asp Asp Tyr
      35          40          45
Gly Gly Ser Asn Lys Gln Thr Asp Gln Ile Lys Val Ala Ile Val Ser
      50          55          60
Glu Ser Leu Arg Ile Pro Ala Arg Gly Val Lys Val Thr Leu Gly Leu
65          70          75          80
Gly Phe Gly Thr Gln Ile Val Asn Lys Gly Val Tyr Val Val Asp Gly
      85          90          95
Gly Ser Ser Gly Gly Glu Pro Arg Ile Val Glu Phe Thr Ala Lys Ala
      100          105          110
Ala Pro Met Asn Ser Ala Lys Gly Leu Ser Thr Val Gln Ser Lys Lys
      115          120          125
Thr Arg Ser Trp Thr Gly Asn Thr Leu Gly Asp Ile Leu Ala Lys Val
      130          135          140
Ala Asn Asp Asn Gly Leu Thr Ala Arg Val Ser Ala Gln Phe Ala Gly
145          150          155          160
Lys Val Ile Glu Gln Leu Asp Gln Val Gly Glu Ser Asp Ala Asn Leu
      165          170          175
Val Ser Arg Leu Ala Asp Arg Phe Asp Ala Val Ser Lys Val Ala Gly
      180          185          190

```

Gly Tyr Trp Met Phe Leu Pro Arg Gly Ala Gly Glu Ser Ala Ser Gly
 195 200 205
 Lys Pro Leu Lys Gln Tyr Thr Leu Val Arg Thr Gly Asn Ser Gln Trp
 210 215 220
 Asn Tyr Ser Arg Asn Gly Arg Ser Gly Asp Ser Gly Asp Asn Ser Asp
 225 230 235 240
 Gly Ser Lys Asp Thr Ser Thr Phe Val Ile Lys Tyr His Asp Gln Ser
 245 250 255
 Thr Gly Thr Ile Lys Glu Leu Arg Ser Gly Ser Gly Glu Pro Val Ile
 260 265 270
 Glu Ala Pro Phe Val Glu Pro Ser Leu Ala Ala Ala Gln Glu Leu Leu
 275 280 285
 Pro Gly Ala Ser Ser Ser Ser Lys Lys Lys Glu Ile Thr Met Ser His
 290 295 300
 Ser Met Pro Ala Thr Gln Asp Leu Leu Ser Leu Thr Ala Glu Cys Lys
 305 310 315 320
 Ile Thr Thr Lys Gly Phe Gly Pro Asp Glu Asp Arg Ser Trp Thr Ile
 325 330 335
 Asn Thr Leu Asn Met Thr Leu Gly Glu Ser Gly Phe Ser Val Arg Leu
 340 345 350
 Gln Leu Glu
 355

<210> 10631

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10631

Cys His Ser His Ile Ser Ser Leu Leu Ser Ile Lys Asn Asn Val Tyr
 1 5 10 15
 Ile Gly Phe Phe Tyr Gly Arg Arg Trp Phe Lys Arg Arg Phe Met Val
 20 25 30
 Val Gly Asn Pro His Lys Phe Arg Leu Val Tyr Ala Ser Tyr Ala Lys
 35 40 45
 His Glu Arg Asp Ile Phe Phe Tyr Tyr Lys Arg Ser Leu Ser Val Leu
 50 55 60
 Phe
 65

<210> 10632

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10632

Gly Leu Val Ala Glu Gly His Ser Ser Tyr Leu Ile Ile Arg Asn Ile
 1 5 10 15
 Arg Cys Ile Leu Asn Ala Ser Leu Ser Gly Tyr Tyr Asn Pro Leu Glu
 20 25 30
 Ala Arg Val Lys Thr Arg Lys Gly Ser Gln Lys Lys His Ala Phe Asn
 35 40 45
 Leu Leu Ile Glu Cys Arg Lys Gly Leu Ser Lys Val Phe Lys Gly Gly
 50 55 60
 Glu Thr Val Asn Asn Pro Pro Arg Val Pro Ile Asp Thr Gly Gln Thr
 65 70 75 80
 Leu Pro Val Tyr Lys Lys Gly Asn Ala Cys Leu Asn Val
 85 90

<210> 10633

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 10633

```

Arg Asn Ser Asn Lys Gln Thr Ala Phe Gln Arg Tyr Ile Leu Arg Ser
1          5          10          15
Val Lys Ile Asp Asp Leu Phe Thr Gly Val Leu Met Ser Leu Pro Ala
          20          25          30
Leu Ile Ala Lys Lys Cys Asp Arg Thr Gln Ile Phe Ser Glu Gln Ile
          35          40          45
Ser Gln Ile Ser Cys Leu Thr Val Leu Phe Val Arg Thr Ala His Pro
          50          55          60
Asn Arg Leu Pro
65

```

<210> 10634

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 10634

```

Arg Arg Ala Ser Ala Thr Arg Phe Leu Ser Thr Lys Thr Ser Arg Lys
1          5          10          15
Thr Ala Ser Gly Gly Gly Tyr Val Leu Pro Asp Leu Asn Thr Pro Gln
          20          25          30
Ala Arg Val Ser Glu Ala Pro Ser Gly Lys Lys Lys Ala Gly Asp Ile
          35          40          45
Ala Ser Gly Phe Phe Val Pro Ala Ile Gln Thr Ile Ser Cys Ala Tyr
          50          55          60
Trp Asn Ser Ala Phe Ser Ser Ala Cys Phe Ser Ala Phe Pro Ser Tyr
65          70          75          80

```

<210> 10635

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10635

```

Ser Trp Asn Lys Lys Val Gly Arg Ala Ala Glu Ser Asp Thr Ser Asn
1          5          10          15
Leu Ile Leu Leu Lys Val Asp Val Ser Met Val Asn Asp Trp Gly Glu
          20          25          30
Gln Ser Glu Gln Lys Ala Pro Ser Gly Lys Lys Phe Ala Arg Phe Val
          35          40          45
Pro Lys Lys Ser Ala Phe Cys His Ile Phe Leu Gln Leu Arg Gln Val
          50          55          60
Thr Thr Ser Glu Leu Pro
65          70

```

<210> 10636

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10636

```

Ala Phe Ile Met Gln Lys Phe Pro Phe Lys Gly Ile Asn Leu Cys Leu
1          5          10          15
Asn Glu Gly Ile Asn Gly Thr Leu Ala Thr Pro Arg Arg Arg Lys Asn
          20          25          30

```

Leu Val Leu Arg Gln Phe Val Glu Asp Arg Tyr Glu Lys Thr Gly Val
 35 40 45
 Val Thr Phe Ser Gly Thr Gly Phe Phe Gln Arg His Arg Gly Ile Arg
 50 55 60
 Ser Asn Ser Ala Glu Asn Ser Tyr Trp Asn
 65 70 75

<210> 10637

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10637

Asp Asn Met Glu Arg Asn Ala His Arg Leu Thr Leu His Ser Pro Ala
 1 5 10 15
 Gly Val Ile Leu His Leu Thr Trp Ser Glu Phe Ile Asp Phe Ala Gln
 20 25 30
 Leu Lys Cys Arg Phe Glu Ala Asp Ser Ala Ser Glu Lys Arg Lys Phe
 35 40 45
 Thr Ala Ile Tyr Tyr Asp Ala Thr Thr Met Gln His Pro Gln Ser Lys
 50 55 60
 Pro Leu Thr
 65

<210> 10638

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 10638

Phe Asn Gly Leu Thr Gly Asn Met Leu Met Ser Val Asn Thr Glu Thr
 1 5 10 15
 Ala Ser Ala Gln Gly Gln Thr Thr Val Leu Glu Lys Glu Gly Val Tyr
 20 25 30
 Ala Ser Leu Phe Glu Lys Ile Asn Leu Thr Pro Ala Ser Ser Leu Gly
 35 40 45
 Asp Ile Asn Ala Phe Leu Asp Asp Ala Ala Leu Ser Asp Ala Pro Ala
 50 55 60
 Gly Glu Arg Leu Thr Ala Ala Met Gln Val Phe Met Asp Cys Ile Arg
 65 70 75 80
 Lys Ser Gly Tyr Gln Cys Cys Arg Ser Gly Met Ala Asp Asp Ala Cys
 85 90 95
 Ala Arg Phe Gly Ala Asn Ala Ala Gly Arg Val Pro Gly Ser Tyr Thr
 100 105 110

<210> 10639

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 10639

Arg Arg Arg Cys Arg Cys Leu Trp Thr Ala Ser Ala Asn Pro Val Thr
 1 5 10 15
 Ser Val Val Ala Val Gly Trp Gln Met Met His Ala Pro Asp Ser Ala
 20 25 30
 Gln Met Gln Leu Ala Ala Ser Leu Ala Pro Ile Pro Glu Gly Leu Ser
 35 40 45
 Thr Ala Gln Leu Gln Ala Leu Gln Gln Thr Ser Pro Pro Pro Glu Pro
 50 55 60

Gly Ile Ser Lys Thr Gln Gln Met Leu Ala Gln Leu Leu His Leu Lys
 65 70 75 80
 Pro Asp Trp Ala Val Ser Tyr Gly Asp Arg Leu Val Gln Gln Ala Leu
 85 90 95
 Thr Leu Trp Pro Glu Glu Ala Lys Ser Leu Ala Gln Gln Trp His Thr
 100 105 110
 Gln Ile Ser Val Ala Gly Leu Ala Glu Ser Asp Leu Asn Gly Trp His
 115 120 125
 Gln Gly Met Thr Gln Leu Gln Gln Leu Thr Asn Arg Leu Asn Ala Leu
 130 135 140
 Asp Glu Gln Lys Gly Lys Tyr Met Thr Val Ser Glu Leu Lys Ser Ala
 145 150 155 160
 Val Phe Ala Met Ser Gln Ser Phe Ser His Thr Val Pro Leu Glu Glu
 165 170 175
 Gln Leu Arg Leu Leu Ser Ile Leu Pro Ala Gly Gln Pro Leu Ser Ala
 180 185 190
 Ala Gln Leu Lys Gln Thr Glu Gln His Leu Gln Gln Leu Ile Ala Ser
 195 200 205
 Tyr Ala Leu Leu Lys His Gln Lys Glu
 210 215

<210> 10640

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 10640

Met Gln Arg Gln Ala Met Gly Val Ala Leu His Ile Val Leu Leu Pro
 1 5 10 15
 Phe Phe Glu Leu Leu His Ser Thr Ile Asp Ser Tyr Asp Ala Asp Phe
 20 25 30
 Ile Val Gly Phe Phe Leu Pro Pro Asp Tyr Leu Arg Leu Pro Phe Arg
 35 40 45
 Gly Gln His Pro Asn Leu Glu Glu Lys Met Ser Ile Leu Leu Ala Leu
 50 55 60
 Gln Arg Leu Asn Thr Trp Gln Ser Asp Pro Val Pro Thr Asp Pro Thr
 65 70 75 80
 Pro Ile Pro Asp Pro Val Pro Arg Pro Gln Pro Met Pro Asp Pro Pro
 85 90 95
 Pro Asp Glu Glu Pro Ile Lys Leu Ser His Arg
 100 105

<210> 10641

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 10641

Ser Thr Lys Lys Asn Asn Glu Thr Gly Glu Lys His Gly Val Asp Met
 1 5 10 15
 Ser Ala Arg Glu Arg Phe Phe Lys Lys Val Gln Gln Ser Ile Gly Asp
 20 25 30
 Lys Pro Ile Tyr Val Asn Thr Ala Glu Ala Glu Val Arg Ala Phe Cys
 35 40 45
 Glu Arg Met Glu Asp Leu Ala Gln Gln Ile Ile Thr Trp Phe Glu Gly
 50 55 60
 Ser Gly Ile Glu Ile Phe Leu Ser Lys Lys His Ile Thr Asp Leu Ser
 65 70 75 80
 Thr Val Gly Tyr Ser Leu Ser Ser Gly Ile Cys Arg Tyr Ala Ile Thr
 85 90 95
 Thr Ile Ile Leu Gln Asn Gly Asp Arg Ser Val Thr Ile Met Pro Glu

```

      100      105      110
Gln Val Ile Arg Gly Ser Glu Lys Gly Cys Val Thr Met Ser Ile Asn
      115      120      125
Val Pro Asp Ser Leu Ser Gly Ala Arg Ile Phe His Leu Ser Met Ala
      130      135      140
Pro Glu Thr Gly Trp Tyr Ile Arg Arg Gly His Gln Ser Ala Lys Glu
      145      150      155      160
Asn Ile Leu Met Thr Glu Asp Cys Phe Phe Gln Ala Ile Asp Cys Leu
      165      170      175
Ala

```

```

<210> 10642
<211> 103
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 10642
Ser Lys Tyr Pro Phe Lys Ser Trp Lys Ile Phe Asp Leu Asn Cys Val
1      5      10      15
Lys Met Ser Lys Leu Thr Phe Arg Arg Val Asn Lys Arg Arg Lys Ile
      20      25      30
Asp Glu Tyr Arg Ser Glu Val Phe Ala Val Tyr His His Cys Cys Ser
      35      40      45
Cys Ser Asp Cys Cys Arg Trp Phe Asn Arg Cys Thr Ala Leu Ile Gln
      50      55      60
Ala Glu Gly Glu Pro Ser Pro Ser Leu Ala Ala Ile Val Thr Ser Pro
      65      70      75      80
Ala Lys Ile Phe Cys Gln Asn Val Asn Phe Ser Phe Phe Val Ile Asp
      85      90      95
Val Met Leu Leu Thr Ser
      100

```

```

<210> 10643
<211> 77
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 10643
His His Ala Lys Asp Pro Ser Leu Gln Glu Ile Lys Met Lys Ala Ile
1      5      10      15
Ser Phe Val Glu Ala Lys Asp Ile Ile Gly Gly Ala Leu Asn Pro Phe
      20      25      30
Ala Gly Leu Val Lys Gly Ala Gln Leu Gly Tyr Asp Thr Gly Ala Ser
      35      40      45
Ile Met Gly Met Val Gly Gly Val Val Gly Gly Val Leu Gly Gly Ala
      50      55      60
Met Gly Phe Leu Gly Ala Leu Val Gly Ser Tyr Asn
      65      70      75

```

```

<210> 10644
<211> 163
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 10644
Asn Met Ser Arg Thr Lys Met Ser Val Leu Phe Ser Ile Val Leu Ala
1      5      10      15
Leu Ser Val Ile Ala Leu Leu Trp Ile Tyr Phe Thr Arg Thr Gln Asp
      20      25      30
Glu Gly Phe Gly Cys Gln Ser Asp Thr Ile Ser Trp Lys Thr Tyr Ser

```

```

      35              40              45
Thr Gly Glu Ser Thr Asp Met Ser Leu Thr Thr Leu Phe Leu Phe Asn
  50              55              60
Asn Lys Asp Val Val Thr Val Ile His Lys Gly Val Leu Lys Lys Glu
  65              70              75              80
Gly Lys Ser Tyr Leu Ile Asp Arg Asn Tyr Thr Leu Ile Val Glu Glu
      85              90              95
Val Asp Gly Ser Asn Ile Phe Tyr Ile Lys Asp Lys Lys Leu Asn Lys
      100              105              110
Ser Glu Asp Asp Ala Ala Pro Asp Gly Val Val Asn Glu Met Leu Leu
      115              120              125
Asp Asn Ile Asn Phe Phe Tyr Ile Thr Ser Val Lys Lys His Ala Trp
      130              135              140
Leu Ile Lys Gly Leu Val Leu Pro Val Met Met Cys Val Ala Val Pro
  145              150              155              160
Thr Ser

```

<210> 10645

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10645

```

Leu Gln Leu Ile His Val Asn Arg Lys Ser Ile Met Gln Val Ile Asp
  1              5              10              15
Phe Lys Lys Ala Gln Ala Ile Ile Gly Gly Trp Asp Pro Phe Ala Ala
      20              25              30
Ala Ile Gln Gly Ala Ser Ala Gly Tyr Asn Ala Gly Ser Gln Met Leu
      35              40              45
Gly Ala Leu Gly Gly Thr Ile Gly Gly Val Phe Gly Leu Val Gly Gly
      50              55              60
Phe Ile Gly Gly Phe Phe Ser Ala
  65              70

```

<210> 10646

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10646

```

Ile Leu Pro Arg Asn Ser Ser Ala Arg Asp Leu Ser Ile Ser Ile Thr
  1              5              10              15
Leu Thr Arg Gln Lys Val Pro Met Val Phe Pro Ser Ser Thr Val Ala
      20              25              30
Ala Gly Ala Ser Ile Phe Ala Gly Cys Val Glu Glu Ser His Ala Val
      35              40              45
Arg Ser Lys Lys Val Ala Arg Thr Leu Ala Arg Lys Lys Val Ile Ser
      50              55              60
Ile Gly Tyr Tyr Pro His Ala Arg Ala Ala Arg Val His
  65              70              75

```

<210> 10647

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 10647

```

Arg Ser His Gly Val Ala Ile Tyr Ser His Glu Lys Tyr Leu Ser Thr
  1              5              10              15
Asp Pro Gly Ala Glu Ser Ser Ile Leu Ser Ala Ala Gln Arg Ile Ile

```

```
<210> 10648
<211> 83
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10649
<211> 114
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10650
<211> 159
<212> PRT
<213> Enterobacter cloacae
```

<400> 10650
Asn Asn Phe Asn Asn Gly Ala Ala Leu Thr Arg Pro Phe Asp Tyr Gln
1 5 10 15
Gln Asp Phe Ala Asn Ile Asn Phe Arg Glu His Pro Glu Arg Tyr Gln

```
<210> 10651
<211> 154
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10652
<211> 81
<212> PRT
<213> Enterobacter cloacae
```

<400> 10652															
Glu	Phe	Phe	Ser	Pro	Lys	Thr	Gln	Phe	Ser	Pro	Leu	Gly	Gly	Gly	Leu
1				5					10					15	
Lys	Leu	Gly	Pro	Lys	Gly	Tyr	Gly	Cys	Ser	Pro	Phe	Lys	Val	Val	Arg
			20					25					30		
Glu	Leu	Gly	Leu	Glu	Arg	Arg	Glu	Thr	Val	Arg	Ser	Ile	Ser	Ala	Val
		35					40					45			
Gly	Ala	Gly	Glu	Leu	Arg	Gly	Val	Ala	Pro	Ser	Thr	Arg	Gly	Pro	Glu
	50					55					60				
Trp	Thr	His	His	Trp	Cys	Ser	Gly	Cys	His	Ala	Asn	Gly	Thr	Ala	Arg
65					70					75					80

<210> 10653
 <211> 66
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (45)

<400> 10653
 Gly Ile Lys Ala Met Pro Leu Ser Ala Gln Gln Leu Ala Ala Gln Lys
 1 5 10 15
 Asn Leu Ser Tyr Val Leu Ala Glu Lys Leu Ala Gln Leu Ile Leu Ala
 20 25 30
 Gly Lys Tyr Ala Pro Gly Ser Ile Leu Ala Pro Lys Xaa Gly Lys Arg
 35 40 45
 Trp Ser Trp Glu Ile Ser Leu Ala Leu Ala Val Gln Pro Phe Ala Lys
 50 55 60
 Arg
 65

<210> 10654
 <211> 114
 <212> PRT
 <213> Enterobacter cloacae

<400> 10654
 Lys Asn Ser Asn Asn Val Ile Ala Asn Gly Gly Ile Met Asn Val His
 1 5 10 15
 Leu Lys Tyr Asp Thr Ile Lys His Tyr His Phe Asp Trp Leu Thr Pro
 20 25 30
 Ala Gly Asp Tyr Pro Asn Ser Ala Val Met Leu Val Gly Phe Arg Asp
 35 40 45
 Gly Arg Trp Ile Ile Val Gln Glu Phe Gly Asn Asp Tyr Ser Cys Phe
 50 55 60
 Glu Gly Val Leu Lys Asn Gly Asp Asp Leu Asn Thr Glu Pro Lys Phe
 65 70 75 80
 Tyr Ser Asp Leu Glu Ser Val Ala Val Ala Ala Phe Gly Met Met Lys
 85 90 95
 Gln Ile Tyr Pro Gln Tyr Gln Asp Ser Thr Leu Glu Glu Phe Leu Ala
 100 105 110
 Gly

<210> 10655
 <211> 136
 <212> PRT
 <213> Enterobacter cloacae

<400> 10655
 Glu Asp Asn Thr Arg Ser Asp Asn Lys Val Val Ser Met Ile Val Gly
 1 5 10 15
 Ser Asn Gly Ser Thr Phe Glu Lys Gly Arg Gln His Tyr Lys Ile His
 20 25 30
 Gln Gln Cys Thr Gln Ile Asn Tyr Trp Tyr Leu Lys Met Lys Val Lys
 35 40 45
 Glu Leu Ile Ala Met Leu Asn Glu Arg Asp Pro Glu Ala Ile Val Leu
 50 55 60

Ile Ser Gly Tyr Glu Thr Ile Gly Gly Thr Glu Val Ala Glu Ala Asp
 65 70 75 80
 Leu Leu Ile Asp Met Gln Ser Ile Cys Leu Glu Gln Ala Asp Asn Leu
 85 90 95
 Thr Gly Asn Arg Lys Val Val Ser Ser Gly Gly Glu Asp Ser Val Trp
 100 105 110
 Leu Gly Trp Lys Asp Asp Tyr Arg Thr Lys Val Phe Leu Glu Asp Ala
 115 120 125
 Gln Ile Pro Asp Gln Asp Glu
 130 135

<210> 10656

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 10656

Val Lys Ile Thr Tyr Asn Gln Tyr Leu Leu Glu Gln Leu Met Ala Asp
 1 5 10 15
 Thr Tyr Leu Pro Pro Gly Phe Lys Lys Cys Lys Ser Cys Gln Gln Val
 20 25 30
 Lys Pro Phe Glu Gln Phe Gly Lys Glu Leu Lys Gly Lys Phe Gly Leu
 35 40 45
 Lys Ser Lys Cys Arg Ala Cys Ile Ser Glu Lys Asn Lys Thr Tyr Ala
 50 55 60
 Ala Gly Pro Gly Ala Glu Val Lys Thr Gln Asn Asn Arg Thr Tyr Gln
 65 70 75 80
 Ala Glu Asn Lys Thr Glu Leu Ala Glu Lys Met Arg Val Lys Arg Ala
 85 90 95
 Lys Glu Lys Phe Gly Asp Arg Tyr Asn Ser Tyr Leu Ala Ser Leu Glu
 100 105 110
 Ser Met Lys Lys Leu Lys
 115

<210> 10657

<211> 487

<212> PRT

<213> Enterobacter cloacae

<400> 10657

Asn Met Lys Val Thr Ile Asp Gly Val Ser Tyr Ala Pro Val Cys Asn
 1 5 10 15
 Ala Gly Ala Arg Ile Gly Ile Ala Ile Thr Thr His Asn Arg Ala Asp
 20 25 30
 Ala Leu Lys Arg Ala Leu Ala Gln His Gln Gln Phe Leu Pro Gln Gly
 35 40 45
 Ala Leu Val Val Val Ile Asp Gly Ser Lys Pro Pro Ala Glu Val
 50 55 60
 Phe Glu Asp Val Gln Leu Leu Arg His Glu Thr Ser Leu Gly Ile Val
 65 70 75 80
 Ala Ser Lys Asn Ala Ser Leu Thr Ala Leu Met Asp Ala Gly Cys Glu
 85 90 95
 His Leu Phe Leu Trp Asp Asp Asp Ala Trp Pro Ile Ala Asp Asn Trp
 100 105 110
 His Leu Pro Tyr Ile Glu Ser Pro Glu Pro His Leu Ala Tyr Gln Phe
 115 120 125
 Leu Asp Leu Ala Gly Thr Asn Lys Leu Lys Asp Met Ala Ile Leu Tyr
 130 135 140
 Arg Asp Asp Lys His Ile Ala Tyr Thr Gly Gln Arg Gly Val Met Leu
 145 150 155 160
 Tyr Tyr His Arg Ser Ala Ile Glu Lys Val Gly Gly Phe Asp Pro Val

				165					170					175			
Tyr	Arg	Arg	Arg	Met	Tyr	Glu	His	Ser	Asp	Leu	Ala	Leu	Arg	Ile	His		
				180					185					190			
Asn	Ala	Gly	Leu	Thr	Thr	Trp	Ala	Tyr	Gly	Asp	Val	Val	Gly	Ser	Glu		
		195					200					205					
Lys	Leu	Ile	His	Ser	Leu	Asp	Glu	His	Glu	Ala	Val	Glu	Arg	Ser	Val		
	210					215					220						
Pro	Arg	Pro	Asp	Arg	Gln	Ala	Leu	Val	Glu	Arg	Asn	Val	Lys	Ile	His		
225					230					235					240		
Asn	Glu	Arg	Arg	Asp	Ala	Gly	Phe	Thr	Gly	Tyr	Ala	Glu	Tyr	Arg	Gln		
				245					250					255			
Gln	Arg	Asp	Val	Val	Ile	Thr	Thr	Leu	Leu	Thr	Ser	Gln	Pro	Asp	Pro		
			260					265					270				
Gln	Arg	Gly	Thr	Lys	Met	Ala	Ala	Ser	Pro	Asp	Met	Leu	Ser	Lys	Trp		
		275				280					285						
Ala	Ala	Ser	Leu	Arg	Gln	Cys	Gly	Arg	Ile	Ala	Leu	Val	Asp	Glu	Leu		
	290				295					300							
Leu	Thr	Ala	Pro	Ala	Asp	Val	Glu	Leu	Tyr	Leu	Val	Pro	Asp	Val	Lys		
305					310					315					320		
Met	Asn	Val	Tyr	Phe	Arg	Arg	Trp	Leu	His	Ile	Trp	Gln	His	Leu	Arg		
				325					330					335			
Asp	His	Pro	Glu	Tyr	Arg	Phe	Val	Trp	Cys	Thr	Asp	Gly	Thr	Asp	Val		
			340				345						350				
Glu	Met	Leu	Arg	Ala	Pro	Trp	Glu	Glu	Met	Gln	Pro	Gly	Thr	Val	Tyr		
		355				360						365					
Val	Gly	Ser	Glu	Pro	Lys	Thr	Tyr	Ala	Asp	Thr	Trp	Ala	Lys	Gln	Asn		
	370				375					380							
His	Pro	Glu	Arg	Ile	Tyr	Gln	Glu	Phe	Ile	Glu	Ser	His	Arg	Gly	Asp		
385					390					395					400		
Val	Met	Leu	Asn	Ala	Gly	Leu	Leu	Gly	Gly	Thr	Arg	Ala	Asp	Val	Met		
			405					410						415			
Ala	Phe	Ala	His	Gly	Ile	Ile	Arg	Leu	Tyr	Tyr	Arg	Ile	Glu	Ser	Tyr		
			420				425						430				
Arg	Phe	Trp	Lys	Lys	Glu	Gln	Ala	Gly	Ala	Ala	Val	Gly	Asp	Met	Leu		
		435				440						445					
Ala	Phe	Gly	Ile	Val	Ala	His	Ser	Phe	Ala	Gly	Lys	Val	Ile	Thr	Gly		
	450				455					460							
Pro	Gln	Val	His	Thr	Val	Phe	Lys	Thr	Asp	Gly	Ile	Gly	Lys	Asp	Asn		
465				470					475						480		
Ala	Trp	Trp	Lys	His	Lys												
				485													

<210> 10658

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 10658

Ala	Ser	Ile	Gln	Leu	Asn	Gln	Phe	Ser	Tyr	Gln	Tyr	Asp	Asn	Glu	Phe
1				5					10					15	
Leu	Phe	Leu	Thr	Ser	Leu	Asp	Thr	Pro	Tyr	Arg	Leu	Lys	Ser	Val	Asp
		20					25					30			
Ser	Gly	Arg	Cys	Ala	Leu	Thr	Asn	Pro	Phe	Ser	Ile	Ser	Leu	Asn	Val
	35					40					45				
Trp	Ser	Arg	Val	Met	Gly	Ile	Leu	Thr	Phe	Asp	Ile	Thr	Cys	Pro	His
	50				55					60					
Cys	Leu	Arg	Glu	Asn	Ala	Val	Leu	Glu	Gly	Trp	Ala	Glu	Leu	Arg	Ile
65				70					75					80	
Asn	Ala	Gly	Pro	Leu	Val	Asn	Val	Ala	Phe	Ser	Cys	Arg	Ser	Cys	Phe
			85					90					95		
Gln	Ala	Gly	Ile	Ala	Met	Val	Lys	Met	Asn	Asn	Pro	Val	Gly	Phe	Ser

```
<210> 10659
<211> 68
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10660
<211> 64
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10661
<211> 68
<212> PRT
<213> Enterobacter cloacae
```

```

1           5           10           15
Arg Val Leu Glu Thr Gly Phe Glu Glu Ser Phe Gly Glu Ile Arg Leu
           20           25           30
Arg His Cys Val Ala Ser Met Asp Thr Ser Tyr Glu Asp His Cys Asn
           35           40           45
Ala Trp Gln Gly Lys Lys Asn Asn Ala Arg His Asn Arg Ala Cys Lys
           50           55           60
Val Thr Tyr
65

```

<210> 10662

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 10662

```

Ser Arg Ser Ser Ala Trp Ala Asp Ala Ala His Ser Asn Thr Pro Ala
1           5           10           15
Leu Ser Ala Leu Ala Gln Ser Arg Gly Leu Thr Asp Asn Arg Ser Gly
           20           25           30
Phe Met Thr His Val Ile Glu Lys Ile Ala Phe Pro Leu Met Gly Ser
           35           40           45
Asp Tyr Ser Thr Met Asn Ser Gly Leu Pro Val Ile Ser Ser Gly Ile
           50           55           60
Ser Ile Pro Ile Ser Asp Asn Met Val Gly Ala Met Ser Glu Ser Leu
           65           70           75           80
Pro Pro Ser Thr Ala Phe Thr Asp Leu Ser Pro Thr
           85           90

```

<210> 10663

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10663

```

Lys Asn Gln Asp Arg Ser Ile Pro Val Arg Cys Gly Lys Tyr Ser Gln
1           5           10           15
Arg His Lys Ala Asn Leu Phe Ser Ala Cys His Val Lys Lys Ala
           20           25           30
Ser Lys Trp Pro Glu Asn Ser Leu Ala Pro Ala Leu Ser Leu Ile Phe
           35           40           45
Cys Gly Tyr Phe Ile Asp Ser Ala Val Val Lys Leu Arg Lys Ile Phe
           50           55           60
Val Ser
65

```

<210> 10664

<211> 214

<212> PRT

<213> Enterobacter cloacae

<400> 10664

```

Val Ile Phe Tyr Thr Leu Ser Arg Tyr Gly Gly Glu Met Glu Thr Leu
1           5           10           15
Thr Val Gln Ala Tyr Leu Asn Glu Thr Trp Thr Asp Ile Ala Leu Ile
           20           25           30
Lys Tyr Pro Gly Ser Glu Lys Asn Asp Trp Asn Thr Thr Gln Leu Asp
           35           40           45
Tyr Leu Thr Glu Tyr Ala Ile Asn Phe Leu Asp Tyr Asp Asp Phe His
           50           55           60
Ala Val Ser Val Asn His Pro Val Ser Leu Phe Phe Asp Asp His Gly

```

```
<210> 10665
<211> 61
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10666
<211> 69
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10667
<211> 62
<212> PRT
<213> Enterobacter cloacae
```

<400> 10667
Ala Lys Arg His Pro Ala Lys Lys Pro Gly Pro His Arg Glu Gly Phe
1 5 10 15
Phe Ile Ser Ala Leu Leu Lys Ile Ala Ala Ile Ala Asp Lys Ile Ile

```
<210> 10668
<211> 74
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10669
<211> 179
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10670
<211> 131
<212> PRT
<213> Enterobacter cloacae
```

<400> 10670
Asp Glu Ala Ser Met Thr Ser Thr Leu Asp Pro Ser His Lys Gln Ile

```

1           5           10           15
Glu Met Trp Arg Arg Ala Thr Gly Ser Glu Gly Gly Leu Asn Glu Tyr
20           25           30
Arg Asn Trp Val Leu Glu Asn Ser Met Arg Phe Thr Ala Tyr Gly Ile
35           40           45
His Thr Val Ile Val Glu Gly Glu Ala Lys His Ile Thr Ala Leu Asp
50           55           60
Asp Val Thr Leu Cys Asn Glu Trp Ala Lys Leu Lys Arg Glu Asn Asn
65           70           75           80
Arg Leu Tyr Ala Ala Asn Glu Lys Ile Cys Ser Gly Trp Arg Gly Phe
85           90           95
Val Leu Arg Leu Leu Gly Ile Thr Leu Pro Cys Arg Lys Pro Val Ile
100          105          110
Leu Leu Gly Val Asp Gly Lys Asn Gln Asn Asp Ala Val Lys Gly Ala
115          120          125
Asp Leu
130

```

```

<210> 10671
<211> 122
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 10671
Phe Ser Gly Glu Pro Thr Val Leu Arg Lys Leu Phe Tyr Gly Tyr Val
1           5           10           15
Arg Lys Ile Met Phe Ser Glu Arg Ser Val His Leu Ile Thr Ser Cys
20           25           30
Thr Lys Gly Lys Asn His Gln Gly His Val Trp Pro Thr Leu Asp Ile
35           40           45
Asp Pro Lys Gln Thr Pro Asp Asp Ala Ala Tyr Ala Trp Ser Asn Ile
50           55           60
Val Asp Asp Ala Arg Ser Asn Gln Ala Val Pro Ala Leu Ser Leu Tyr
65           70           75           80
Ser Gly Asn His Trp Ser Thr Ala Lys Glu Ile Leu Asn Ser Thr Arg
85           90           95
Asn Leu Glu Leu Trp Ile Ile Ser Ala Gly Met Gly Phe Leu Asn Ser
100          105          110
Arg Asp Arg Ala Leu Leu Met Arg Phe
115          120

```

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<210> 10672
<211> 78
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 10672
Val Cys His Ala Thr Asn Asn Gly Tyr Leu Thr Phe Ile Tyr Ser Pro
1           5           10           15
Thr Met Leu Ile Val Arg His Ala Ile Arg Ser Phe Ser Leu Ser Arg
20           25           30
Ala Thr Phe Asn Leu Met Glu Glu Cys Met Tyr Gly Leu Ser Leu Ile
35           40           45
Arg Leu Gly Leu Phe Ile Ala Leu Ala Ile Ile Ala Ser Thr Ala Ile
50           55           60
Gly Leu Phe Thr Tyr Val Val Val Ser Ala Leu Ala Glu
65           70           75

```

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<210> 10673
<211> 324
<212> PRT

```

<213> Enterobacter cloacae

<400> 10673

```

Thr Thr Met Asn Ala Thr Gly Leu Asn Ile Ile Lys Thr Leu Gly Cys
1      5      10      15
Met Thr Ala Val Thr Phe Phe Thr Ile Tyr Asn Thr Trp Asp His Tyr
      20      25      30
Asp Tyr Asp Tyr His Trp Ile Leu Gly Phe Leu Thr Phe Ile Ser Thr
      35      40      45
Ile Ala Thr Pro Leu Phe Phe Val Val Ala Gly Tyr Leu Asp Gly Gln
      50      55      60
Ser Arg His Gly Thr Arg Trp Gln Leu Asp Lys Ile Lys Arg Leu Val
65      70      75      80
Ile Val Phe Leu Phe Trp Val Thr Ile Tyr Tyr Leu Trp Glu Pro Tyr
      85      90      95
Gln Arg Gly Tyr Leu Ile Gln Pro Trp Phe Val Phe Ala Phe Ile Val
      100     105     110
Ile Tyr Thr Phe His Pro Val Val Glu Arg Leu Gly Gln Arg Arg Met
      115     120     125
Leu Phe Cys Gly Val Ile Thr Ala Leu Leu Leu Phe Ser Tyr Gly Tyr
      130     135     140
Asp Leu Leu Ser Ala Leu Tyr Pro Asp Ala His Val Leu Ser Leu Ser
145      150     155     160
Pro Gln Tyr Arg Leu Trp Thr Trp Leu Leu Phe Tyr Leu Thr Gly Gln
      165     170     175
Leu Phe Cys Asp Pro Gln Ile Ala Ala Trp Ile Gly Arg Lys Asn Val
      180     185     190
Val Arg Ala Ala Val Ile Ala Ile Pro Phe Ile Tyr Leu Phe Thr Trp
      195     200     205
Phe Tyr Glu Arg His Phe Phe Ala Leu Phe Lys Ala Asp Arg Asn
      210     215     220
Ala Phe Ile Leu Thr Gly Ser Gln Ile Tyr Ile Leu Ile Ile Ala Leu
225      230     235     240
Val Ile Ala Ala Asn Gly Val Arg Phe Arg Arg Asn Ala Glu Phe Lys
      245     250     255
Glu Ser Val Leu Ala Ala Ile Ser Lys Thr Met Thr Gly Val Tyr Ile
      260     265     270
Met His Tyr Ser Val Phe His Leu Leu Thr Ala Leu Ile Pro Val Thr
      275     280     285
Ser Leu Ser Thr Lys Leu Ala Leu Ile Val Leu Thr Phe Val Thr Ser
      290     295     300
Val Leu Phe Ser Leu Leu Ile Leu Ser Asn Thr Val Ala Lys Lys Val
305      310     315     320
Ile Thr Leu

```

<210> 10674

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10674

```

Asp Thr Leu Gln Arg Gln Tyr Pro Cys Leu Gly Ile Val Ser Thr Val
1      5      10      15
Asn Tyr Ala Arg Leu Arg Phe Lys Thr Asp Gly Tyr Gly Phe Cys Thr
      20      25      30
Phe Arg Leu Met Thr Glu Arg Ile Lys Gly Ile Ser Trp Leu Asn Gly
      35      40      45
Ala Ala Asn Ile Ser Ala His Thr Leu Ser Thr Val Arg Arg Val Ser
      50      55      60
Lys Ser Arg Lys Ser Arg Cys Pro Phe Leu

```

65

70

75

<210> 10675

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 10675

```

Ser Met Ala Ala Ala Thr Gly Trp Ile Ser Ala Ala Ser Cys Leu Thr
1          5          10          15
Trp Arg Asn Gln Phe Trp Tyr Glu Val Asn Val Gly Ile Glu Thr Ile
          20          25          30
Ile Gly Leu Ala Ala Leu Val Ile Ser Ala Ile Ala Gly Ala Phe Gly
          35          40          45
Leu Gly His Ile Arg Gly Thr Ser Lys Ala Glu Ala Lys Ala Asp Gln
          50          55          60
Gln Arg Thr Glu Asp Asn Ala Ala Ala Met Val Ala Ala Ala Glu Arg
65          70          75          80
Arg Val Glu Thr Thr Lys Glu Ala Ser Asn Val Gln Gln Thr Val Asn
          85          90          95
His Met Pro Gly Asp Asp Val Asp Arg Glu Leu Arg Asp Glu Trp Lys
          100          105          110
Arg Pro Gly Gly Gly
          115

```

<210> 10676

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 10676

```

Trp Thr Arg Gly Arg Lys Met Gly Ile Ser Pro Thr Leu Asn Ile Pro
1          5          10          15
Gln Ala Arg Phe Leu Ala Met Gln His Lys Phe Lys Ala Tyr Val Ala
          20          25          30
Gly Phe Gly Ser Gly Lys Thr Trp Val Gly Cys Gly Gly Ile Cys Lys
          35          40          45
Gly Met Trp Glu His Pro Lys Ile Asn Gln Gly Tyr Phe Ala Pro Thr
          50          55          60
Tyr Pro Gln Ile Arg Asp Ile Phe Tyr Pro Thr Ile Glu Glu Val Ala
65          70          75          80
Phe Asp Trp Gly Leu Asn Val Lys Ile Asn Glu Gly Asn Lys Glu Val
          85          90          95
His Phe Tyr Glu Gly Arg Arg Tyr Arg Gly Thr Thr Ile Cys Arg Ser
          100          105          110
Met Glu Lys Pro Gly Ser Ile Val Gly Phe Lys Ile Gly Asn Ala Met
          115          120          125
Val Asp Glu Leu Asp Val Met Ala Ala Lys Ala Gln Gln Ala Trp
          130          135          140
Arg Lys Ile Ile Ala Arg Met Arg Tyr Lys Ile Asp Gly Leu Arg Asn
145          150          155          160
Gly Ile Pro Leu Thr Gly Pro Gly
          165

```

<210> 10677

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 10677

```

Thr Met Lys Glu Cys Lys Lys Asp Arg Leu Pro Glu Tyr Lys Ser Leu

```

```

1           5           10           15
Ser Val Leu Leu Phe Ile Ile Ser Ile Phe Ile Val Ile Phe Ile Pro
20           25           30
Val Ala Ser Leu Leu Ile Leu Val Ile Leu Val Val Thr Ile Lys Lys
35           40           45
Gln Lys Ala Arg Thr Lys Pro Gln Glu Asn Ile Tyr His Phe Val Lys
50           55           60
Asp Met Asn Ala Phe Gly Ser Ile Leu Glu Ser Arg Cys Leu Met Ser
65           70           75
Leu Thr Gly Gly Arg Cys Tyr Ala Thr Ser Ile Phe Asn Pro Tyr Leu
85           90           95
Gly Leu Ser Leu Phe Asp Thr Asp Asn Ile Lys Tyr Val Leu Val Met
100          105          110
Lys Gly Lys Ala Thr Asp Val Phe Lys Pro Ile Ile Ser Ser Tyr Arg
115          120          125
Glu Val Phe Leu Pro Trp Lys Trp Trp Lys Phe Phe Arg Gly Glu Tyr
130          135          140
Val Ser Lys Ala Leu Lys Asp Leu Glu Phe Asn Cys Asp Val Lys Ser
145          150          155
Val Arg Asn Glu Tyr Lys Glu Tyr Asn Arg Phe Val Cys Gly Ser Arg
165          170          175
Lys Arg Val Leu Phe Cys Tyr Leu Tyr Ile Asp Asn Leu Thr Glu Leu
180          185          190
Glu Asn Asp Leu Ser Ile Tyr Arg Ile Gln Lys Phe Leu Phe Trp Ile
195          200          205
Gly Asp Ile Phe Leu Ser Val Leu Gly Trp Ile Gly Ile Val Cys Gly
210          215          220
Asn Leu Ile Phe Leu Gly Leu Cys Gly Cys Glu Phe Val Asn Ser Leu
225          230          235
Met Asn Tyr Ile Ser Lys Asn Asn Asp Ser Phe Ala Thr His Phe Ser
245          250          255
Ile Tyr Trp Val Ile Tyr Ile Ser Gly Val Phe Phe Ala Val Phe Leu
260          265          270
Ile Ala Cys Leu Tyr Phe Ile Leu Arg Lys Lys Ser Ile Thr Ser Arg
275          280          285
Val Ala Arg Gln Lys Lys Lys Tyr Lys Ser Asn Tyr Lys Phe Met Leu
290          295          300
Ser Ile Ser Glu Lys
305          310

```

<210> 10678

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 10678

```

Gly Gly Ala Met Ser Asp Pro Phe Ser Gly Thr Gly Leu Ala Gly Leu
1           5           10           15
Ala Leu Thr Gly Ala Ser Val Tyr Gly Leu Leu Thr Gly Thr Asp Tyr
20           25           30
Gly Val Val Phe Gly Ala Phe Ala Gly Ala Val Phe Tyr Ile Ala Thr
35           40           45
Ala Thr Asp Leu Ser Met Leu Arg Arg Leu Ala Tyr Phe Val Val Ser
50           55           60
Tyr Ile Val Gly Ile Leu Gly Tyr Gly Leu Val Gly Ser Lys Leu Ala
65           70           75
Ser Trp Thr Glu Tyr Ser Asp Lys Pro Leu Asp Ala Ile Gly Ala Val
85           90           95
Ile Val Ser Ala Leu Ala Val Gln Ile Leu Thr Phe Leu Asn Lys Gln
100          105          110
Asp Ile Gly Ser Leu Val Ala Leu Ile Thr Arg Arg Gly Gly Ser Gly

```

115 120 125
 Gly Thr Lys
 130

<210> 10679
 <211> 78
 <212> PRT
 <213> Enterobacter cloacae

<400> 10679
 Lys Gln Arg Lys Arg Pro Ala Met Tyr Ser Arg Leu Leu Ile Ile Cys
 1 5 10 15
 Leu Ala Thr Met Leu Ile Ala Ser Cys Val Thr Asn Gly Ser Val Pro
 20 25 30
 Ala Val Val Asp Thr Gly Cys Asp Trp Val Lys Pro Ile Phe Leu Thr
 35 40 45
 Asp Gln Asp Ile Asp Val Leu Asp Arg Gln Thr Lys Lys Asp Ile Leu
 50 55 60
 Ala His Asn Lys Ala Trp Lys Ala Asn Cys Gly Lys Asn
 65 70 75

<210> 10680
 <211> 152
 <212> PRT
 <213> Enterobacter cloacae

<400> 10680
 Gln Pro Met Lys Ile His Phe Ile Thr Ile Ala Leu Leu Ala Thr Ile
 1 5 10 15
 Ser Ser Pro Ser Tyr Ala Ala Phe Gln Glu Arg Glu Tyr Asn Thr Trp
 20 25 30
 Tyr Gln Lys Asp Ala Val Leu Tyr Asp Ile Thr Gln Thr Ser Glu Gly
 35 40 45
 Leu Pro Val Met Ile Ser Ile Ser Gln Pro Gly Arg Glu Ser Ala Asn
 50 55 60
 Met Leu Val Ser Tyr Met Ser Asp Gly Gly Cys Gly Asp Glu Lys Val
 65 70 75 80
 Arg Leu Asn Ala Asn Gly Lys Asp Val Pro Ala Thr Tyr Thr Cys Val
 85 90 95
 Ser Val Gly Ala Asp Arg Ile Glu His Phe Ala Val Asn Asp Ala Ser
 100 105 110
 Lys Val Asn Glu Met Val Asn His Leu Lys Ser Asp Phe Thr Leu Leu
 115 120 125
 Leu Gln Asn Asp Ile Lys Val Trp Ala Ala Asn Ile Lys Thr Pro Lys
 130 135 140
 Tyr Gly Leu Ala Pro Lys Phe
 145 150

<210> 10681
 <211> 469
 <212> PRT
 <213> Enterobacter cloacae

<400> 10681
 Leu Asp Leu Gly Glu Arg Gln His Ile His Gln His His Leu Pro Ile
 1 5 10 15
 Thr His Ser Val Ser Lys Gln Thr Pro Leu Arg Arg Gly Phe Leu Leu
 20 25 30
 Pro Gly Glu Asn Met Leu Tyr Asn Thr Gly Thr Ile Ala Ile Asn Gly
 35 40 45
 Asn Thr Ala Thr Gly Thr Gly Thr Asn Trp Thr Ala Pro Ala Ser Gln

50	55	60
Ile Arg Val Gly Gln Thr Leu Phe Val Leu Ser Asn Pro Val Gln Met		
65	70	75
Phe Gln Ile Thr Ala Ile Asn Ser Ala Thr Ser Leu Thr Val Thr Pro		
	85	90
Ala Ala Ser Gln Ala Leu Ser Gly Gln Lys Tyr Gly Ile Leu Val Thr		
	100	105
Asp Ser Leu Ser Val Asp Gly Leu Ala Gln Ser Met Ser Gln Leu Ile		
	115	120
Asn Glu Tyr Asp Glu Asn Ile Gly Ala Trp Glu Thr Phe Ala Thr Thr		
	130	135
Ser Ala Asn Gln Asn Ile Thr Val Thr Ile Asn Gly Ala Arg Val Thr		
145	150	155
Ile Pro Ala Ile Gly Lys Leu Val Gln Lys Gly Ser Asn Gly Ala Val		
	165	170
Gly Val Ser Asp Gly Gly Thr Gly Ala Thr Asn Ala Ala Asp Ala Arg		
	180	185
Thr Asn Leu Gly Leu Gly Thr Ser Ala Thr Arg Asn Val Gly Gly Ala		
	195	200
Pro Gly Asn Val Met Glu Val Gly Ala Phe Gly Val Gly Leu Thr Asn		
	210	215
Phe Thr Ala Asn Ser Val Ala Asp Ala Asn Asp Ile Thr Phe Asn Gly		
225	230	235
Phe Ser Gly Gly Gly Gly Ala Ser Ser Val Asn Phe Phe Asp Gln Tyr		
	245	250
Ala Gly Leu Leu Ala Ile Thr Arg Ser Gly Gly Gly Asp Gly Asn Gly		
	260	265
Phe Ile Ala Gln Leu Gln Ile Ser Gly Ser Gly Ala Met Ala Val Arg		
	275	280
Gly Arg Ala Gly Thr Thr Trp Ser Ser Trp Met Gln Val Tyr Asn Thr		
	290	295
Gly Asn Thr Thr Lys Ala Ser Asp Gly Thr Leu Lys Ala Ala Ser Pro		
305	310	315
Val Ala Arg Ile Val Ala Ser Ala Asp Thr Cys Leu Arg Ser Asp Ile		
	325	330
Ala Glu Asp Gly Phe Ser Trp Cys Gly Cys Gly Thr Ala Asn Thr Glu		
	340	345
Ala Glu Gly Ile Lys Ile Leu Arg Leu Asp Val Gly Val Tyr Val Leu		
	355	360
Thr Gly Ser Ser Gly Leu Ala Ser Glu Gly Trp Gln Leu Leu Pro Pro		
	370	375
Met Asp Pro Gly Gly Met Gly Glu Leu Gly Val Val Glu Ala Glu Gln		
385	390	395
Thr Ala Asp Gly Glu Leu Thr Ile Arg Leu Phe Lys Arg Lys Tyr Met		
	405	410
Leu Ser Asp Glu Gly Glu Ile Val Lys Thr Lys Gly Glu Pro Met Asp		
	420	425
Val Pro Val Asn Ser Trp Ile Asp Val Arg Leu Asp Met Pro Asp Asp		
	435	440
Ser Val Phe Asn Gln Arg Met Arg Gln Glu Pro Gln Leu Glu Pro His		
	450	455
Ser Pro Ala Leu		460
465		

<210> 10682

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10682

Pro Val Arg Val Trp Arg Ser Arg Cys Phe Thr Gly Ala Cys Pro Leu

```

1           5           10           15
Ile Tyr Pro His Asn Gly Leu Leu Tyr Leu Leu Ala Ile Thr Arg Leu
                20                25                30
Gly Ala Ala Ser Leu Leu Leu His Gly Leu Met Ala Ala Val Asn Pro
                35                40                45
Leu Thr Val Ser Arg Ser Leu Ala His Pro Pro Val Lys Thr Ile
                50                55                60

```

<210> 10683

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10683

```

Tyr Pro Thr Leu Thr Leu Val Val Ile Cys Leu Ala Ala Arg Leu Tyr
1           5           10           15
Met Thr Leu Met Arg Arg Met Pro Thr Pro Gly Asn Ile Asn Lys Lys
                20                25                30
Ser Asn Glu Thr Glu Thr Pro Val Ala Leu Ala Glu Arg Ala Phe Phe
                35                40                45
Ser Lys Lys Ser Gln Leu Gly Gln Asn Trp Leu Gly Leu Ala Val Ser
                50                55                60
Arg Tyr Tyr Phe Ala Leu Ile Ser Thr Cys Thr Leu Phe Leu
                65                70                75

```

<210> 10684

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 10684

```

Gly Met Leu Ser Val Gly Leu Ile Pro Ile Phe Arg Pro Arg Val His
1           5           10           15
Tyr Ile Asp Ile Asp Leu Asn Trp Gly Arg Phe Val Ile Ile Thr Ile
                20                25                30
Thr Gly Gln Leu Phe Ala Glu Phe Phe His Leu Gln Gln Pro Ala Val
                35                40                45
Asp Phe Asp Leu Leu Glu Thr Leu Ser Glu Leu Ala Ile Arg Gln Ala
                50                55                60
Glu Pro Leu His Tyr Arg Phe Lys His Ser Leu Thr Ala Asp Gly Cys
                65                70                75                80
Asp Phe Asp Thr Ile Leu Ala Asn Leu His Ala
                85                90

```

<210> 10685

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 10685

```

Val Lys Ala Asn Ser Met Val Thr Lys Lys Ile Cys Asn His Leu Ser
1           5           10           15
Ile His Tyr Gln His Ser Thr Ala Ser Thr Leu Phe Leu Val Ser Phe
                20                25                30
Phe Glu Trp Arg Thr Gly Cys Tyr Val Ser Ser Met Met Ser Asn Asn
                35                40                45
Lys Glu Ser Leu Ile Lys Gln Ile Ser Glu Tyr Ala Arg Leu Asn Glu
                50                55                60
Gln Glu Glu Ile Gln Leu Arg Lys Ile Ile Ser
                65                70                75

```

<210> 10686
 <211> 90
 <212> PRT
 <213> Enterobacter cloacae

<400> 10686
 Met Pro Asn Ala Ser Asp Tyr Phe Ser Cys Asn His Ile Phe Ser Phe
 1 5 10 15
 Thr Val Arg Lys Val Gly Asp Leu Asp Thr Val Ile Val Ser Asn Pro
 20 25 30
 Ile Ile Ser Leu Phe His Asn Ser Pro Leu Lys Leu Phe His Leu Glu
 35 40 45
 Val Tyr Met Thr Ile Gln Asn Ser Leu Val Val Asp Lys Thr Phe Phe Leu
 50 55 60
 Arg Met Trp Arg Arg Val Pro Pro Gly Asp Leu Ser Leu Val Val Lys
 65 70 75 80
 Val Ala Cys Ile Pro Ala His Ser Ser
 85 90

<210> 10687
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10687
 Lys Lys Ile Phe Phe Glu His Arg Phe Gln Asn Gly Phe Pro Phe Met
 1 5 10 15
 Pro Gly Ala Ala Gly Ala Val Ala Leu Asn Ile Arg His Val Ser Lys
 20 25 30
 Leu Ile Tyr Thr His Leu Ile Val Asn Thr Asn Lys Lys Thr Asn His
 35 40 45
 Val Tyr Tyr Phe Ile Asn Asp Ala Ile Leu Lys Ser Val
 50 55 60

<210> 10688
 <211> 90
 <212> PRT
 <213> Enterobacter cloacae

<400> 10688
 Thr Glu Met Thr His Thr Ala Val Ser Gln Ala Asn Ser Ala Leu Gln
 1 5 10 15
 Leu Pro Thr Val Glu His Val Tyr Ala Leu Leu Lys Ala Asn Cys Lys
 20 25 30
 Pro Asp Arg Phe Asp Gly Arg Asp Gly Pro Val Trp Gly Gln Glu Tyr
 35 40 45
 Ser Trp Asn Leu Ala Lys Asp Arg Leu Gln Asp Leu Glu Lys Tyr Gly
 50 55 60
 Lys Ala Tyr Val Ser Arg His Glu Asp Arg Met Gly Glu Gly Phe Ser
 65 70 75 80
 Phe Gly Pro Asp Leu Leu Ile Ile Arg
 85 90

<210> 10689
 <211> 811
 <212> PRT
 <213> Enterobacter cloacae

<400> 10689
 Arg Gly Ile Arg Met Lys His Leu Ala Phe Ile Thr Ala Val Ala Gly
 1 5 10 15

Leu Gly Met Ser Val Gln Ala Pro Ala Gln Ile Tyr Glu Ser Ala Phe
 20 25 30
 Lys Asp Thr Asn Gly Ile Glu Ile His Ala Pro Ser Ser Arg Leu Met
 35 40 45
 Leu Asn Pro Ala Ser Pro Val Thr Leu Thr Leu Ile Ser Gly Leu Asp
 50 55 60
 Arg Phe Val Asn Val Lys Val Thr Lys Asp Thr Gly Thr Val Ile Leu
 65 70 75 80
 Asn Thr Thr Thr Thr Arg Thr Gly Val Ser Asp Arg Leu Thr Ala Ala
 85 90 95
 Asp Gly Ser Glu Phe Tyr Gly Lys Lys Val Thr Leu Pro Ala Leu Gly
 100 105 110
 Glu Gly Lys Phe Val Val Gln Ile Asn Val Leu Asp Leu Asn Gln Lys
 115 120 125
 Pro Val Ala Thr Tyr Asn Tyr Asn Trp Leu Ile Asp Val Thr Pro Pro
 130 135 140
 Ala Ala Asn Ala Leu Thr Ala Asn Thr Gly Ser Gly Ser Thr Ala Gly
 145 150 155 160
 Asp Val Trp Lys Leu Gly Leu Glu Ala Thr Gly Gln Tyr Asp Phe Thr
 165 170 175
 Ser Ser Gly Val Ser Asp Ala Asn Gly Ile Asp Lys Gly Leu Ile Tyr
 180 185 190
 Ile Tyr Arg Gln Asp Gly Ser Leu Tyr Ser Thr Thr Gln Met Gln Tyr
 195 200 205
 Asp Val Ser Gly Gln Lys Met Tyr His Thr Tyr Ser Lys Asn Ser Val
 210 215 220
 Lys Gly Thr Gly Ile Pro Asp Ser Asn Leu Asp Glu Asp Phe Thr Ala
 225 230 235 240
 Lys Val Val Ile Phe Asp Asn Ala Gly Asn Ser Arg Thr Leu Pro Thr
 245 250 255
 Gln Lys Phe Arg Tyr Asp Asn Thr Leu Gly Glu Met Thr Leu Trp Ala
 260 265 270
 Val His Asp Pro Asn Thr Ser Ser Ser Val Val Pro Gly Val Ser Asn
 275 280 285
 Tyr Pro Ala Tyr Lys Ala Gly Met Val Val Asn Glu Asn Pro Ile Arg
 290 295 300
 Leu Val Tyr Arg Ile Pro Lys Ser Asn Tyr Arg Ala Tyr Ser Glu Gly
 305 310 315 320
 Gly Leu Gln Phe Ile Asn Gln Tyr Ser Ala Pro Lys Glu Ile Ala Val
 325 330 335
 Asp Ser Thr Tyr Ala Tyr Val Glu Met Thr Leu Pro Tyr Gly Ser Ile
 340 345 350
 Asn Gly Asp Met Ala Arg Met Ala Asn Phe Gly Gln Trp Gly Gly Tyr
 355 360 365
 Tyr Pro Ser Tyr Ser Leu Val Leu Asn Pro Ser Ala Asn Gln Thr Pro
 370 375 380
 Ala Phe Ala Gly Thr Trp Val Asp Phe Leu Asp Asp Lys Gly Asn Trp
 385 390 395 400
 Val Lys Trp Lys Asp Phe Glu Ser Val Ala Ser Ser Arg Leu Pro Ile
 405 410 415
 Lys Ile Ser Arg Leu Arg Phe Asn Val Glu Ala Arg Pro Phe Ala Gln
 420 425 430
 Glu Ile Gly Gly Lys Ala Thr Cys Thr Ile Pro Ala Gly Lys Thr Ser
 435 440 445
 Cys Glu Ala Pro Glu Thr Phe Asp Met Ala Leu Gly Thr Gln Gly Tyr
 450 455 460
 Asn Arg Ile Leu Tyr Phe Val Arg Ser Ile Ser Asn Pro Ile Leu Arg
 465 470 475 480
 Ser Glu Gln Trp Ile Met Thr Arg Trp Asn Asn Lys Gln Leu Pro Val
 485 490 495
 Ile Asn Ser Ile Ser Tyr Asp Glu Thr Asn Lys Gln Leu Asp Val Leu

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<210> 10690
<211> 265
<212> PRT
<213> Enterobacter cloacae
```

<400> 10690															
Tyr	Lys	Ala	Asn	Thr	Glu	Lys	Glu	Asn	Lys	Met	Tyr	Lys	Leu	Val	Ser
1				5					10					15	
Pro	Arg	Glu	Leu	Thr	Glu	Ile	Ile	Thr	Gly	Leu	Leu	Leu	Lys	Pro	Glu
			20					25					30		
Leu	Leu	Gly	Glu	Leu	Asp	Ser	Pro	Glu	Lys	His	Arg	Met	Phe	Met	Ala
		35					40					45			
Asp	Leu	Gly	Arg	Val	Val	Ala	Glu	His	Cys	Gly	Gly	Leu	Val	Asn	Ser
	50					55					60				
Val	Val	Leu	Pro	Gly	Thr	Glu	Val	Thr	Val	Ser	Asp	Gly	Leu	Pro	Leu
65					70					75					80
Asn	Gly	Gln	Pro	Val	Arg	Tyr	Leu	Gly	Ile	Lys	Glu	Asn	Ile	Pro	His

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      85          90          95
Leu Leu Val Glu Pro Asp Ala Ser Leu Pro Ser Leu Ala Lys Asn Val
      100          105          110
Trp Met Tyr Ala Asp Pro Glu Gly Trp Lys Glu His Phe Gly Ala Glu
      115          120          125
Glu Asp Cys Leu Thr Pro Glu Met Met Gln Leu Phe Arg Lys Gly Ile
      130          135          140
Gln Ala Leu Gln Lys Glu His Asp Thr Pro Glu Ile Ser Leu Thr Leu
      145          150          155
Gln Asp Trp Arg Leu Glu Glu Glu Thr Leu Pro Glu Glu Asp Ser Gln
      165          170          175
Ala Tyr Gln Val Ser Val Thr Gly Gln His Asn Ile His Cys Glu Val
      180          185          190
Val Asn Lys Glu Gly Asn Pro Cys Leu Gly Val Met Phe Glu Ile Asp
      195          200          205
Gln Gly Val Xaa Ala Leu His Ile Asn Thr Gly Gly Asp Met Leu Leu
      210          215          220
His Ile His Cys Ala His Asn Gly Leu Val Leu Thr Pro Asp Ala Ser
      225          230          235
Gly Gln Arg Phe Asp Lys Ala Pro Val Asp Arg Phe Ser Tyr Asn Ser
      245          250          255
Pro Ser Leu Leu Ser Ala Asp
      260          265

```

<210> 10691

<211> 204

<212> PRT

<213> Enterobacter cloacae

<400> 10691

```

Tyr Gly Lys His Asn Trp Lys Asn Met Phe Ser Lys Pro Met Thr Thr
1          5          10          15
Phe Thr Pro Glu Arg Ile Glu Gln Ile Leu Glu Phe Ala Glu Gly Ser
      20          25          30
Asn Pro Ser Glu Ala Met Ser Leu Arg Ala Asp Glu Val Ala Val Leu
      35          40          45
Ala Arg Ile Gly Lys Ala Val Met Ser Ile Ala Pro Val Tyr Gln Cys
      50          55          60
Glu Phe Cys His His Asp Ala Thr Gly Gln Leu Gln Trp His Trp Glu
      65          70          75          80
Asp Val Asn Lys Ala Phe Tyr Asp Lys Tyr Asp Pro Asp Arg Arg Gly
      85          90          95
Arg Arg Arg Ile Leu Tyr Thr Ala Pro Pro Met Pro Leu Val Ser Ala
      100          105          110
Asp Leu Leu Asn Met Ala Ser Ser Ala Ile Glu Asp Leu Leu Thr Asn
      115          120          125
Lys Asp Arg Ser Gly Ala Gly Met Trp Asn Asp Ile Pro Glu Gln Leu
      130          135          140
Arg Arg Ala Ala Glu Leu Val Met Asp Asn Ser Arg Ala Ala Glu Thr
      145          150          155          160
Glu Ala Met Leu Met Arg Leu Tyr Val Glu Cys Asp Thr Gly Glu Arg
      165          170          175
Arg Gly Asn Gly Thr Gln Ser Gly Val Ala Met Pro Ser Trp Gln Thr
      180          185          190
Val Glu Glu Ala Arg Val Leu Leu Gly Val Lys
      195          200

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<210> 10692

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10692

Ala Phe Pro Lys Gly His Tyr Val Arg Lys Ser Ile Lys Asn Phe Ser
 1 5 10 15
 Ile Trp Cys Ser Lys Leu Gln Ile Tyr Asn Leu Pro Phe Asp Lys Pro
 20 25 30
 Tyr Cys Ala Phe Arg Thr Glu Ile Phe Leu Phe Gly Ile Thr Ser Asp
 35 40 45
 Ile Ser Val Val Ser Lys Leu Ala Thr Ile Ala Lys Leu Ile Thr Leu
 50 55 60
 Ala
 65

<210> 10693

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10693

Ala Thr Ser Leu Ser Glu His Cys Asp Gly Met His Asp Met Phe Asn
 1 5 10 15
 Val Arg Ala Phe Lys Glu Trp Trp Ile His Asn Asp Asn Ile Lys Ser
 20 25 30
 Phe Ile Gly Leu Val Pro Lys Lys Val Gly Met His Gln Leu Asp Ser
 35 40 45
 Cys Ala Lys Asp Thr Ile Val Leu His Cys Lys Glu Ser Leu Ile Val
 50 55 60
 Gln Phe Asp Pro Gly Asn Gln Cys Ile Arg Ser Arg Gln Phe
 65 70 75

<210> 10694

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 10694

Arg His Arg Pro Gly Gly Thr Gly His Lys Arg Lys Thr Ile Leu Lys
 1 5 10 15
 Pro Met Leu Lys Lys Asp Phe Phe Ser Ala Ile Glu Asn Leu Leu Lys
 20 25 30
 Ala Gly Phe Gln Pro Arg Phe Tyr Thr Val Asn Ser Gly Arg Ile Gly
 35 40 45
 Leu Ile Thr Phe Thr Asp Lys Asn Gly Thr Lys Gln Val Glu Gln Val
 50 55 60
 Tyr Ser Cys Thr Ser Leu Ala Ala Asn Thr Phe Gly Lys Arg Phe Thr
 65 70 75 80
 Thr Trp Leu Glu Glu Ile Phe Gln Lys His Asn Glu Glu Lys Val Ala
 85 90 95
 Asp Ser Gly Phe Glu Val Gly Ser Arg Val Trp Asp Lys Leu Met Tyr
 100 105 110
 Thr Leu Arg Thr Ile Ser Glu Ile Arg Ala Gly Gly Val Leu Val Leu
 115 120 125
 Asp Asn Gly Ala Gln Arg Thr Leu Asp Glu Val Gln Lys Thr Ala Pro
 130 135 140
 Glu Thr Asn Gln Val Glu Pro Lys Glu Ile Ser Ser Leu Gln Glu Leu
 145 150 155 160
 Leu Asn Ala Ser Lys Asn Leu Glu Pro Thr Ser Pro Glu Leu Ile Ala
 165 170 175
 Ala Leu Asn Glu Ala Leu Ser Thr Ala Ile Lys Arg
 180 185

<210> 10695
 <211> 72
 <212> PRT
 <213> Enterobacter cloacae

<400> 10695
 Pro Cys Thr Lys Met Met Glu Lys Gln Val Ala Lys Asn Asn Asn Ser
 1 5 10 15
 Leu Lys Gln His Val Phe Asn Met Leu Ser Ala Gly Ser Glu Leu Lys
 20 25 30
 Glu Val Lys Arg Phe Leu Thr Ser Lys Arg Val Lys Ala Arg Leu Ala
 35 40 45
 Val Ser Met Ile His Glu Gln Ala Ile Ala Val Gln Asn Thr Glu Tyr
 50 55 60
 Gln Asn Tyr Pro Ala Tyr Ser
 65 70

<210> 10696
 <211> 242
 <212> PRT
 <213> Enterobacter cloacae

<400> 10696
 Cys Val Pro Tyr Trp His Cys His Cys Pro Pro Ser Val Arg Ser Ala
 1 5 10 15
 Leu Gly Gly His Arg Asn Leu Met Arg Arg Val Thr Ala Ile Val Asn
 20 25 30
 Leu Asp Trp Ile Gly Glu Tyr Gly Phe Arg Leu Gly Gln Met Ser Met
 35 40 45
 Val Met Leu His Pro Ala His Tyr Cys Ser His Cys Arg Ser Ala Glu
 50 55 60
 Leu Met Leu Leu Ser Phe Tyr Val Ala Thr Thr Val Val Ser Pro Glu
 65 70 75 80
 Ser Asp Tyr Arg Cys His Gly Arg Pro Val Glu Arg Val Asn Leu Leu
 85 90 95
 Asn His Arg Val Thr Thr Val Leu Ser Pro Glu Ser His Tyr Arg Cys
 100 105 110
 His Gly Arg Leu Val Lys Arg Ile Tyr Leu Ser Ile His Arg Val Thr
 115 120 125
 Met Val Val Ser Pro Ala Ser His Tyr Arg Cys His Ser Arg Pro Val
 130 135 140
 Glu Gln Ile Asn Leu Leu Thr Tyr Arg Met Thr Thr Val Val Ser Leu
 145 150 155 160
 Leu Ser His Tyr Arg Cys His Cys His Pro Glu Glu Arg Met Ile Leu
 165 170 175
 Ser Ile His Thr Ala Thr Met Ala Leu Ser Pro Ala Ser His Phe Arg
 180 185 190
 Cys His Ser Leu Pro Glu Glu Gln Met Ser Leu Leu Ile Asn Arg Val
 195 200 205
 Thr Thr Val Val Ser Ser Leu Ser His Tyr Tyr Cys His Gly Arg Thr
 210 215 220
 Ala Glu Leu Ile Ile Leu Ser Ile His Thr Pro Thr Met Val Val Ser
 225 230 235 240
 Tyr

<210> 10697
 <211> 144
 <212> PRT
 <213> Enterobacter cloacae

<400> 10697

```

Met Ala Met Asn Lys Lys Glu Gln Ala Ala Tyr Asp Glu Leu Val Ala
1      5      10      15
Gln Ala Arg Ile Asn Arg Ala Leu Arg Trp Ser Asp Tyr Gly Val Glu
20     25     30
Arg Asp Met Pro Val Pro Glu Val Ser Gly Glu Tyr Gln Asn Gly Trp
35     40     45
Ser Phe Asn Thr Ala Thr Gly Thr Val Tyr Pro Thr Trp Ser Gly Thr
50     55     60
Thr Val His Gly Thr Arg Glu Glu Gly Glu Val Val Asp Ala Thr Ser
65     70     75     80
Arg Arg Met Arg Gly Met Asn Gly Ser Gln Asn Gly Ile Pro Gln Tyr
85     90     95
Ser Thr Lys Glu Arg Ala Leu Lys Ala Leu Arg Cys Ser Leu Glu Ile
100    105    110
Lys Phe Ala Met Gln Leu Asp Ala Ile Asp Lys Ala Ile Ala Lys Glu
115    120    125
Ile Glu Leu Ser Thr Ala Arg Arg Glu Ser Asp Thr Ser Asp Ala
130    135    140

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<210> 10698

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 10698

```

Leu Leu Leu Asp Leu Pro Pro Ser Gly Glu Asp Val Thr Val Asp Gly
1      5      10      15
Leu Glu Asn Val Arg Ile Gln Leu Thr Asp Ala Leu Thr Lys Pro Ser
20     25     30
Leu Ser Arg Met Thr Leu Arg Gly Gly Pro Val Ser Asp Ala Val Glu
35     40     45
Leu Ser Trp Val Asn Leu Gly Asn Asn Leu Tyr Ala Pro Asn Tyr Pro
50     55     60
Lys Ile Phe Pro Ser Leu Asn Glu Gly Glu Thr Tyr Thr Leu Thr Val
65     70     75     80
Gln Ala Lys Asp Glu Met Asn Asn Val Lys Glu Ser Ser Val Glu Phe
85     90     95
Asn Tyr Leu Pro Asn Asn Leu Val Arg Leu Glu Asn Leu Lys Thr Leu
100    105    110
Ala Val Asn Ala Ser Leu Lys Thr Ser Asp Asn Thr Pro Leu Ala Val
115    120    125
Leu Tyr Ala Ser Gln Leu Arg Lys Lys Asp Gly Ser Ile Ala Thr Gly
130    135    140
Leu Gln Asp Ala Val Leu Thr Val Arg Lys Asp Ala Ala Phe Gly Val
145    150    155    160
Thr Val Asn Gly Val Ser Ala Met Pro Gly Glu Ser Lys Glu Leu Gln
165    170    175
Leu Asp Leu Gly Leu Gly Asp Ser Arg Ser Phe Pro Ile Phe Pro Ala
180    185    190
Val Ser Gly Leu Thr Gly Arg Ser Glu Phe Met Ile Asn Ile Glu Glu
195    200    205
Leu Lys
210

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<210> 10699

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 10699

Ser Cys Pro Pro Leu Ala Gly Arg Ala Ile His Gln Met Pro Ser Gly
 1 5 10 15
 Lys Pro Ser Ile Gln Ala Arg Asp Gln Arg Gly Leu Asn Ala Leu Lys
 20 25 30
 Glu Ala Val Pro Ala Thr Ala Gln Leu Gln Met Arg Val Thr Pro Glu
 35 40 45
 Arg Lys Leu Arg Tyr Val Asn Gln Ala Lys Ala Glu Gly Leu Gly Leu
 50 55 60
 Thr Asp Trp Val Gln Lys His Met Asp Asn Val Cys Asp Leu Ala Gly
 65 70 75 80
 Gln Pro Glu Ile Thr Met Tyr Lys Asp Asp Gly Glu Thr Ser Gly Gln
 85 90 95
 Lys

<210> 10700

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 10700

Pro Leu Arg Thr Val Thr Ser Leu Gln Phe Ile Lys Trp Ile Tyr Ile
 1 5 10 15
 Tyr Lys Pro Ala Thr Leu Lys Ser Ile Val Gly Ile Phe Leu Phe Ser
 20 25 30
 Cys Ser Val Asp Asn Lys Ile Val Val Lys Arg Gln Tyr Phe Leu Val
 35 40 45
 Glu Ile Ala Gln Asn Leu Val Tyr Phe Ser Tyr Glu Phe Leu Val Leu
 50 55 60
 Trp Pro Val Tyr Ile Pro Arg Asp Gln Arg Leu
 65 70 75

<210> 10701

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 10701

Ile His Leu Ile Asn Cys Asn Glu Val Thr Val Arg Asn Gly Gln Arg
 1 5 10 15
 Glu Val Trp Glu Met Arg Met Leu Pro Val Leu Pro Asp Glu Ser Leu
 20 25 30
 Phe Ser Arg Phe Cys Arg Thr Thr Thr Val Tyr Gly Met Ser Pro Ser
 35 40 45
 Ser Leu Leu Thr Ile Ile Phe Asn Lys Pro Asp Met Asn Val His Pro
 50 55 60
 Ile Leu Asn Ser Gly Leu Lys Ala Ile Ser Leu His Thr Ser Glu Ser
 65 70 75 80
 Ala Asp Gln Leu Trp His Glu Gln Thr Leu Leu Pro Leu Phe Ala Trp
 85 90 95
 Ala Leu Pro Ile Ser Arg Asn Glu Ile Leu Asp Phe Asn
 100 105

<210> 10702

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 10702

Ser Leu Ser Ser Gly Ile Thr Pro Arg Leu Thr Thr Thr Asp Ser Pro
 1 5 10 15

Leu Ser Ser Ser Arg Met Met Phe Met Leu Leu Ser Cys Gln Ala Ala
 20 25 30
 Gly Lys Arg Val Lys Glu Pro Ser Trp Arg Val Tyr Phe Ile Ser Glu
 35 40 45
 Leu Gly Met Ile Tyr Ser Lys Asn Lys Ile Lys Ser Ala Lys Ile Tyr
 50 55 60
 Thr Ala Asn Ile Asn Tyr Cys Leu Ala Thr Gln Arg Asn Met Ile Ile
 65 70 75 80
 Arg Thr Leu Ala Leu Ser Phe Phe Pro Gln Lys Leu
 85 90

<210> 10703

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10703

Leu Leu Val Tyr Trp Leu Val Asp Met Phe Ser Ser Asn Leu Trp Met
 1 5 10 15
 Ser Lys Tyr Tyr Glu His Gln Arg Val Phe Ser Leu Leu Ile Tyr Pro
 20 25 30
 Pro Ile Phe Val Leu Tyr Asp Leu Phe Glu Lys Asn His Ile Leu Thr
 35 40 45
 Pro Thr Asp Pro Pro Thr Pro Ala His Ser Ala His Thr Gly Lys Gly
 50 55 60

65

<210> 10704

<211> 183

<212> PRT

<213> Enterobacter cloacae

<400> 10704

Leu Leu Ala Leu Arg Phe Val His Ser Gly Ile Lys Ile Met Leu Asn
 1 5 10 15
 Arg Ile Thr Val Gln Leu Pro Val Glu Gly Leu Leu Phe Trp Lys Leu
 20 25 30
 Ser Gly Arg Glu Ala Met Ser Glu Ser Phe Ala Leu Thr Leu Thr Val
 35 40 45
 Leu Gly Thr Asp Ala Arg Ile Asp Arg Ser Arg Leu Leu Gly Gln Pro
 50 55 60
 Val Thr Val Thr Ile Pro Thr Gln Asn Leu Leu Thr Ser Arg Tyr Val
 65 70 75 80
 Asn Gly Lys Ile Thr Arg Val Ala Val Ser Ala Val Glu Leu Thr Gly
 85 90 95
 Thr Arg Tyr Ala Val Tyr Gln Leu Thr Val Glu Pro Asp Leu Trp Pro
 100 105 110
 Met Lys Arg Asp Arg Asn Leu Arg Ile Phe Gln Arg Pro Asn Gly Thr
 115 120 125
 Gln Ile Val Lys Thr Leu Leu Gly Glu His Gln Val Lys Pro Pro Lys
 130 135 140
 Thr Thr His Arg Gln Leu Pro Gly Val Gly Leu Leu Arg Ala Val Ser
 145 150 155 160
 Gly Val Glu Pro Gly Leu His Gln Pro Pro Asp Gly Ala Gly Gly Asp
 165 170 175
 Cys Val Leu Leu Pro Pro
 180

<210> 10705

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 10705

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Ile Ile Pro Ser Ser Leu Met Lys Tyr Thr Leu Gln Glu Gly Ser Phe
1           5           10           15
Thr Leu Phe Pro Ala Ala Trp Gln Asp Asn Ser Met Asn Ile Ile Arg
          20           25           30
Asp Asp Glu Ser Gly Leu Ser Val Val Val Ser Arg Gly Val Ile Pro
          35           40           45
Asp Asp Ser Asp Tyr Glu Gln Glu Phe His Arg Gln Trp Asp Val Leu
          50           55           60
Arg Pro Gln Met Gly Glu Ile Ala Gln Ser Glu Phe Gln His Val Lys
65          70           75           80
Ala Gly Pro Asp Gly Asn Ile Ser Gly Leu Glu Val Glu Thr Thr Phe
          85           90           95
Asp Arg Asn Gly Gln Arg Leu Trp Gln Lys Gln Leu Ala Val Gln Thr
          100          105          110
Pro Gly Lys Pro Val Leu Met Ile Phe Thr Leu Ser Ala Leu Lys Ala
          115          120          125
Phe Thr Glu Glu Asp Glu Ala Arg Trp Ser Ala Leu Lys Gln Ser Leu
130          135          140
Thr Leu Asn Asp Asn Arg Asn Val
145          150

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<210> 10706

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 10706

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Pro Ile His Leu Phe Met Leu Thr Glu Phe Tyr Leu Met Gly Gly Tyr
1           5           10           15
Lys Met Ile Asp Phe Asn Ala Asp Ile Leu Ser Gly Arg Ala Leu Gly
          20           25           30
Asn Val Phe Leu Gly Asp Asn Ile Ser Lys Tyr Ile Ser Glu Leu Tyr
          35           40           45
Ala Gly Tyr Lys Val Thr Tyr Phe Asp Tyr Phe Leu Pro Asp Asp Lys
          50           55           60
Lys Arg Leu Ala Tyr Ile Val Asp Asp Thr Met Thr Ile Ala Thr Leu
65          70           75           80
Glu Asp Gly Thr Ile Ile Ser Ile Gly Cys Asn Val Asn Tyr Lys Gly
          85           90           95
Arg Tyr Asn Lys Ile Leu Gln Thr Gly Gln Thr Met Gly Glu Ile Ile
          100          105          110
Gly Leu Thr Tyr Lys Gln Arg Ile Phe Asn Gly Cys Ile Ile Ile Asn
          115          120          125
Asp Asp Phe Gly Phe Ser Phe Glu Leu Pro Ala Pro Tyr Asp Glu Ile
130          135          140
Ala Asp Ser Ile Ala His Val Pro Leu Asp Leu Val Leu Asn Glu Ile
145          150          155          160
Arg Val Ala Asp Tyr Ser Asp Trp Asn Pro Gln Lys Ile Lys Arg
          165          170          175

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<210> 10707

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 10707

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Ile Ile Met Ile Thr Met Glu Asp Ser Met Glu Ser Arg Met Ile Lys

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1           5           10           15
Ala Thr Phe Leu Ile Val Leu Pro Leu Phe Ser Ile Phe Thr Tyr Ala
      20           25           30
Gly His Asn Lys Met Asn Gln Asp Ser Leu Trp Gln Met Ile Lys Glu
      35           40           45
Met Lys Ser Val Trp Gly Lys Gln Val Glu Asp Val Ser Lys Leu Phe
      50           55           60
Asn Gln Pro Leu Ile Asn Asn Thr Gln Glu Lys Glu Asp Arg Tyr Thr
      65           70           75           80
Ser Ala Pro Phe Thr Leu Thr Asp Gly Thr Arg Ile Ser Asn Val Asp
      85           90           95
Val Arg Leu Trp Gly Asn Gly Asp Asn Ser Val Ser Leu Val Ser Phe
      100          105          110
Val Val Asn Gln Pro Cys Ile Thr Leu Asp Gln Val Lys Ser His Phe
      115          120          125
Pro Asp Leu Lys Leu Ser Asn Ile Pro Arg Gly Asn Thr Pro Gly Gln
      130          135          140
Ser Val Gly Tyr Arg Thr Pro Thr Asp Glu Arg Gly Leu Ala Trp Ala
      145          150          155          160
Phe Ser Phe Pro Val Leu Asn Gln Glu Cys Leu Gly Arg Val Val Met
      165          170          175
Ser Arg Tyr Glu Gln
      180

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<210> 10708

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10708

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Asn Thr Gln Arg Pro Ser Gln Arg Arg Trp Asp Tyr Tyr Tyr Arg Asn
1           5           10           15
Asn Leu Val Arg Glu Glu Arg Asp Asp Asn Pro Phe Lys Trp Tyr Arg
      20           25           30
Trp Gln Tyr Asp Arg Gln Cys Arg Ala Ser Pro Gly Ser Gly Arg His
      35           40           45
Ala Gly Arg Arg Gly Ala Gly Gly Leu Gly Cys Ser Arg
      50           55           60

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<210> 10709

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 10709

```

Arg Pro Asn Pro Arg Asn Arg Lys Lys Pro Gln Thr Gln Val Ser Phe
1           5           10           15
Arg Tyr Asp Pro Leu Gly Arg Arg Ile Ser Lys Thr Arg Arg Gln Lys
      20           25           30
Leu Gly Gly Gln Pro Thr Gly Lys Pro Ser Pro Pro Gly Val Ser Gly
      35           40           45
Asn Asp Cys Leu Leu Gly Glu Ala His Gly Asp Val Leu Phe Thr Tyr
      50           55           60
Val Asp Glu Ser Gly Gln Asp Asn Tyr Asp Leu Leu Ala Arg Val Asp
      65           70           75           80
Ser Val Asp Ala Ser Tyr Ile Phe Trp Val His Cys Gln Ser Asn Gly
      85           90           95
Thr Ala Gln Leu Ile Thr Asp Ile
      100          105

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<210> 10710

<211> 82
 <212> PRT
 <213> Enterobacter cloacae

<400> 10710
 Cys Phe Ser Ile Thr Ile Ile Trp Asn Lys Asn Lys Ser Leu Gly Asn
 1 5 10 15
 Ile Met Ser Asp Lys Ile Met Gln Thr Val Asp Leu Leu Ile Ser His
 20 25 30
 Ser Gln Ile Leu Leu Arg Ser Arg Asp Tyr Asp Glu Lys Leu Ser Gln
 35 40 45
 Trp Gly Lys Gly Asn Val Ser Gln Gly Ala Val Leu His Lys Asp Tyr
 50 55 60
 Ala Val Phe Val Leu Leu Pro Gln Gly Thr Gly Ile Arg Ala Met Gln
 65 70 75 80
 Cys Glu

<210> 10711
 <211> 83
 <212> PRT
 <213> Enterobacter cloacae

<400> 10711
 Leu Pro Phe Trp Val Asn Ser Leu Gly Gly Pro Val Asn Arg Glu Glu
 1 5 10 15
 Thr Gly Leu Phe Arg Glu Ile Phe Met Lys Ala Arg Glu Ser Val Ile
 20 25 30
 Pro Phe Pro Ile Gly Ile Lys Gly Leu Leu Phe Gln Trp Glu Met Arg
 35 40 45
 Pro Val Phe Ala Leu Pro Asp Lys Leu Gly Gly Ile Gln Asn Ser Phe
 50 55 60
 Ile Glu Leu Met Asn Val Tyr Ala Glu Lys Thr Gly Ser Asp Gln Tyr
 65 70 75 80
 His Leu

<210> 10712
 <211> 63
 <212> PRT
 <213> Enterobacter cloacae

<400> 10712
 Thr Leu Met Gly Phe Leu Arg Arg Trp Phe Lys Ser Gln Ala Gln Phe
 1 5 10 15
 Phe Phe Trp Thr Tyr Val Pro Ile Ile Leu Thr Phe Ile Phe Gly Tyr
 20 25 30
 Val Leu Asp Val Tyr Phe Pro Glu Val Ser Gln Gly Phe Ile Leu Leu
 35 40 45
 Phe Tyr Leu Val Thr Leu Gly Leu Ala Tyr Trp Ile Trp His
 50 55 60

<210> 10713
 <211> 115
 <212> PRT
 <213> Enterobacter cloacae

<400> 10713
 Leu Ile Gly Cys Trp Thr Gly Arg Arg Arg Leu Ile Asp Ser Val Arg
 1 5 10 15
 Ser Gly Ala Leu Ile Leu Thr Leu Ser His Arg Ala Glu Gly Ser Pro

20 25 30
 Gln Asn Asn Ala Cys Thr Asp Gly Pro Leu Ser Leu Glu Gly Glu Gly
 35 40 45
 Trp Gly Glu Gly Glu His Thr Ala Leu Val Val Ile Pro Phe Thr Leu
 50 55 60
 Cys Ser Leu Leu Leu Cys His Asp Met Thr Gly Glu Arg Ala Arg Val
 65 70 75 80
 Ala Gln Ser Pro Pro Pro Trp Arg Pro Gly Leu Pro Ala Glu Asn Arg
 85 90 95
 Arg Phe Ala Val Pro Ser Ala Tyr Ser Phe Arg Leu Ile Gly Asp Gly
 100 105 110
 Arg Arg
 115

<210> 10714

<211> 252

<212> PRT

<213> Enterobacter cloacae

<400> 10714

Cys Tyr Phe Thr Leu Leu Thr Glu Thr Met Thr His Ala Val Ser Pro
 1 5 10 15
 Ser Glu Leu Ser Lys Leu Pro Thr Asn Lys Thr Lys Arg Leu Tyr Arg
 20 25 30
 Leu Pro Ala Arg Phe Tyr Gly Tyr Gln Leu Phe Val Leu Ile Val Leu
 35 40 45
 Ala Leu Leu Phe Thr Trp Leu Ser Arg Asp Glu Ser Leu Asp Arg Trp
 50 55 60
 Ile Thr Gly Phe Trp Tyr Asp Ala Ala Thr His Phe Pro Leu Gln
 65 70 75 80
 Gln Asn Pro Leu Leu Asp Leu Leu Asn His Arg Leu Ala Lys Tyr Val
 85 90 95
 Ala Ile Ala Leu Ala Val Ile Ala Leu Val Tyr Gly Thr Tyr Arg Arg
 100 105 110
 Asn Ala Arg Leu Val Thr Ala Ala Leu Leu Met Gly Leu Gly Ala Leu
 115 120 125
 Val Val Gly Ala Leu Lys Ser Met Ser His His Ser Cys Pro Trp Asp
 130 135 140
 Leu Val Glu Tyr Gly Gly Lys Ala Val Ser Tyr Pro Leu Phe Ser Ala
 145 150 155 160
 Ile Pro Ala Asp Ser Gly Pro Gly Arg Cys Phe Pro Gly Gly His Ala
 165 170 175
 Ser Ser Gly Phe Met Val Met Gly Leu Phe Phe Ala Phe Trp Arg Glu
 180 185 190
 Arg Pro Arg Leu Ala Trp Thr Phe Val Ala Leu Gly Val Val Met Gly
 195 200 205
 Leu Leu Met Gly Phe Gly Gln Val Met Arg Gly Ala His Phe Phe Ser
 210 215 220
 His Asn Leu Trp Ala Gly Trp Trp Val Trp Phe Ser Gln Val Leu Val
 225 230 235 240
 Tyr Gly Leu Val Ser Ala Trp Phe Ala Lys Glu
 245 250

<210> 10715

<211> 242

<212> PRT

<213> Enterobacter cloacae

<400> 10715

Ser Ala Arg Ser Val Ser Met Tyr His Ser Glu Glu Ile Ile Arg Gln
 1 5 10 15

Leu Gln Ser Gln Lys Ile Leu Ala Met Lys Leu Asp Arg Ala Val Arg
 20 25 30
 Asp Val Gly Glu Glu Val Lys Ser His Leu Asn Asn Ile Gly Ala Gly
 35 40 45
 Ala Gln Arg Leu Leu Tyr Tyr Thr Ser Cys Phe Thr Asp Glu Tyr Tyr
 50 55 60
 Asp Val Cys Thr Arg Gln Asn Leu Glu Asp Ala Arg Phe Arg Lys Gly
 65 70 75 80
 Ile Phe His Leu Ile Ser Arg Trp Asn Ile Val Phe Asp Leu Ile Asn
 85 90 95
 Thr Tyr Val Glu Glu Leu Val Lys Asp Tyr Ser Pro Ala Glu Leu Ser
 100 105 110
 Ala Ile Gln His Ala Leu Met Arg Ala Asn Val Tyr Ile Ser Thr Ser
 115 120 125
 Thr Leu Thr Ser Tyr Ser Phe Ser Ala Gly Val Ala Ser Thr Val Cys
 130 135 140
 Leu Tyr Val Thr Leu Pro Pro Ser Gly Leu Lys Val Val Ser Gly Leu
 145 150 155 160
 Thr Gly Ala Ala Ile Gly Gly Leu Gly Ile Tyr Gly Val Val Gln Lys
 165 170 175
 Ala Ala Asp Ser Ala His Arg Leu Gln Val Met His Pro Ala Tyr Tyr
 180 185 190
 Gln Ala Leu Tyr Leu Gln Glu Leu Glu Met Met Tyr Phe Leu Val Glu
 195 200 205
 Pro Ala Phe Met Arg Ala Gly Val Leu Thr Gln Gln Trp Thr Asp Ser
 210 215 220
 Gln Ser Pro Tyr Asp Ala Ala Asp Thr Ile Leu Lys Leu Met Gly Arg
 225 230 235 240
 His

<210> 10716

<211> 639

<212> PRT

<213> Enterobacter cloacae

<400> 10716

Ser Ile Thr Asp Lys Asp Leu Thr Pro Met Lys Lys Met Leu Thr Leu
 1 5 10 15
 Ser Leu Leu Ala Leu Cys Val Ser His Gly Ala Ala Ala Asn Tyr
 20 25 30
 Ala Leu Ser Asn Asp Asn Ile Ala Leu Ser Phe Asp Asp Ala Asn Ala
 35 40 45
 Thr Val Val Val Thr Asp Ser Lys Ser Asn His Pro Leu Thr Pro Gln
 50 55 60
 Glu Leu Phe Phe Leu Thr Leu Pro Asp Glu Thr Lys Ile His Thr Ala
 65 70 75 80
 Asp Phe Lys Ile Lys His Val Glu Lys Gln Asp Asn Ala Ile Val Ile
 85 90 95
 Asp Phe Thr His Pro Asp Phe Asn Val Thr Val Lys Leu Asn Leu Val
 100 105 110
 Lys Gly Lys Tyr Ala Ser Ile Gly Tyr Thr Ile Ala Ala Val Gly Gln
 115 120 125
 Pro Arg Asp Val Ala Lys Ile Thr Phe Phe Pro Thr Lys Lys Gln Ser
 130 135 140
 Gln Ala Pro Tyr Val Asp Gly Ala Ile Asn Ser Ser Pro Ile Val Ala
 145 150 155 160
 Asp Ser Phe Phe Ile Leu Pro Asp Lys Pro Ile Val Asn Thr Tyr Ala
 165 170 175
 Tyr Glu Ala Thr Thr Asn Leu Asn Val Glu Leu Lys Thr Pro Ile Leu
 180 185 190

Pro Glu Thr Pro Val Ser Phe Thr Thr Trp Phe Gly Thr Phe Pro Glu
 195 200 205
 Thr Asn Gln Leu Arg Arg Ser Val Asn Gln Phe Ile Asp Ala Val Arg
 210 215 220
 Pro Arg Pro Tyr Lys Pro Tyr Leu His Tyr Asn Ser Trp Met Asp Ile
 225 230 235 240
 Gly Phe Phe Thr Pro Tyr Ser Glu Gln Asp Val Ile Gly Arg Met Asp
 245 250 255
 Glu Trp Asn Lys Glu Phe Ile Ala Gly Arg Gly Val Ala Leu Asp Ala
 260 265 270
 Phe Leu Leu Asp Asp Gly Trp Asp Asp Arg Thr Gly Arg Trp Leu Phe
 275 280 285
 Gly Pro Ala Phe Ser Asn Gly Phe Gly Lys Val Arg Glu Lys Ala Asp
 290 295 300
 Ser Leu His Ser Ser Val Gly Leu Trp Leu Ser Pro Trp Gly Gly Tyr
 305 310 315 320
 Asn Lys Pro Arg Asp Ile Arg Val Ser His Ala Lys Glu Tyr Gly Phe
 325 330 335
 Glu Thr Val Asp Gly Lys Leu Ala Leu Ser Gly Pro Asn Tyr Phe Lys
 340 345 350
 Asn Phe Asn Asp Gln Ile Ile Lys Leu Ile Lys Asn Glu His Ile Thr
 355 360 365
 Ser Phe Lys Leu Asp Gly Met Gly Asn Ala Asn Ser His Ile Lys Gly
 370 375 380
 Ser Pro Phe Ala Ser Asp Phe Asp Ala Ser Ile Ala Leu Leu His Asn
 385 390 395 400
 Met Arg Ser Ala Asn Pro Asn Leu Phe Ile Asn Leu Thr Thr Gly Thr
 405 410 415
 Asp Ala Ser Pro Ser Trp Leu Phe Tyr Ala Asp Ser Ile Trp Arg Gln
 420 425 430
 Gly Asp Asp Ile Asn Leu Tyr Gly Pro Gly Thr Pro Val Gln Gln Trp
 435 440 445
 Met Thr Tyr Arg Asp Ala Glu Thr Trp Arg Ser Ile Val Arg Lys Gly
 450 455 460
 Pro Leu Phe Pro Leu Asn Ser Leu Met Tyr His Gly Ile Val Ser Ala
 465 470 475 480
 Glu Asn Ala Tyr Tyr Gly Leu Glu Lys Val Gln Thr Asp Ser Asp Phe
 485 490 495
 Ala Asp Gln Val Trp Ser Tyr Phe Ala Thr Gly Thr Gln Leu Gln Glu
 500 505 510
 Leu Tyr Ile Thr Pro Ser Met Leu Asn Lys Ala Lys Trp Asp Thr Leu
 515 520 525
 Ala Gln Ala Ala Lys Trp Ser Arg Glu Asn Ala Ser Val Leu Val Asp
 530 535 540
 Thr His Trp Ile Gly Gly Asp Pro Thr Ser Leu Gln Val Tyr Gly Trp
 545 550 555 560
 Ala Ser Trp Ser Lys Asp Lys Ala Ile Phe Gly Leu Arg Asn Pro Ser
 565 570 575
 Asp Lys Pro Gln Arg Tyr Tyr Leu Asp Leu Thr Lys Asp Phe Glu Ile
 580 585 590
 Pro Ala Gly Glu Arg Ser Gln Phe Thr Leu Lys Ala Val Tyr Gly Ser
 595 600 605
 Asn Ser Thr Val Pro Glu Glu Tyr Lys Asn Ala Val Val Ile Thr Leu
 610 615 620
 Gln Pro Leu Glu Thr Leu Val Phe Glu Ala Met Pro Gly Lys
 625 630 635

<210> 10717

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 10717

Thr Ser Thr Cys Ile Ala Arg Leu Leu Pro Pro Pro Val Val Lys Ile
 1 5 10 15
 Tyr Pro Gly Arg Thr Gly Ala Gly Gly Arg Thr Arg Leu Ala Val Pro
 20 25 30
 Ala Cys Gly Trp Arg Tyr Arg Gln His Ala Asp Val Gly Asp Cys Asp
 35 40 45
 Gly Gly Gly Arg Leu Pro Val Arg Asp Pro Asn Arg Gly Gly Asp Pro
 50 55 60
 Asp Tyr Ser Asp His Asp Asp Gly Arg Tyr Gly Asp Arg Thr Ser Ala
 65 70 75 80
 Gly Ala Ala His His Ala Ala Gly Gly Glu Pro Ala Val Ala Tyr His
 85 90 95
 Ala Ala

<210> 10718

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 10718

Ala Trp Ala Leu Gly Phe Lys Ala Ile Asn His Ala Gly Ser Lys Met
 1 5 10 15
 Leu Cys Val Gly Gly Gly Arg Ala Ile Ala Thr Thr Glu Asp Phe Val
 20 25 30
 Ala Val Glu Gln Arg Leu Asn Gln Cys His Arg Cys Thr Arg Asp Arg
 35 40 45
 Val Arg Lys Gly Phe Arg Arg Gly Asn Leu Arg Leu Asn Ala Phe Cys
 50 55 60
 Glu Ala His Phe Asn Ser Phe Glu His Gly Ile Pro Leu Lys Ser Tyr
 65 70 75 80
 Leu Cys Val Phe Ala Lys Arg Val Phe Lys Pro Val Asp Arg Ile Ser
 85 90 95
 Gly Glu Gly Tyr His Ile Glu Thr Ala Ile His Ser Ile Lys Thr Pro
 100 105 110
 Ile Met Ala Gly Lys Pro Gln Val Gly Ser Leu
 115 120

<210> 10719

<211> 135

<212> PRT

<213> Enterobacter cloacae

<400> 10719

Val Asp Asn Val Leu His Gln His Ser Trp Lys Arg Ala Ala Ala Leu
 1 5 10 15
 Thr Ala Leu Phe Ala Ile Leu Leu Ile Val Val Ala Pro Leu Ile Ser
 20 25 30
 Val Ser Leu Gln Lys Asp Pro Met Ser Ala Met Pro Gly Met His His
 35 40 45
 Asp Met Ser Met Met Ser Val Asp Glu His His Gly Asp Met Pro His
 50 55 60
 Ser Met Pro Val Asp His Ala Glu Ala Cys Gly Tyr Cys Val Leu Leu
 65 70 75 80
 Ala His Val Pro Gly Val Met Leu Ala Leu Ile Val Leu Leu Ser Val
 85 90 95
 Val Leu Gln Arg Leu Arg Val Lys Pro Pro Arg Gln Ala Val Ser His
 100 105 110
 Trp His Phe Phe Pro Trp Leu Tyr Pro Asp Thr Arg Ala Pro Pro Arg

115 120 125
 Arg Ser Ala Phe Ser Leu
 130 135

<210> 10720
 <211> 93
 <212> PRT
 <213> Enterobacter cloacae

<400> 10720
 Arg Gly Ser Ile Asn Trp Leu Ser Cys Pro Ser Ala Arg Asp Trp Ala
 1 5 10 15
 Ser Ala Arg Ala Ser Trp Asn Leu Leu Val Arg Arg Ser Arg Arg Ile
 20 25 30
 Thr Pro Pro Ile Thr Gly Gln Ile Cys Tyr Trp Arg Leu Asn Glu Val
 35 40 45
 Ile Pro Gln Leu Phe Lys Val Asn Asn Leu Asn Tyr Val Lys Arg Lys
 50 55 60
 Arg Arg Val Pro Asp Arg Leu Asp Ser Leu Gly Tyr Ile Ser Gln Met
 65 70 75 80
 Lys Leu Ala Ile Arg Pro Val Val Leu Ser Arg Arg
 85 90

<210> 10721
 <211> 97
 <212> PRT
 <213> Enterobacter cloacae

<400> 10721
 Leu Leu Lys Cys Lys Phe Met Ser Ala Leu Arg Ile Glu Leu Glu Lys
 1 5 10 15
 Gly Phe Thr Asn Glu Gly Val Val His Glu Leu Ser Trp Ile Pro Gly
 20 25 30
 Val Gln Thr Gly Arg Gly Leu Cys Ala Ile Pro Pro Gly Lys Gly Ile
 35 40 45
 Asp Leu Trp Gln Lys Lys Pro Arg Lys Thr Gln Ser Phe Thr Tyr Arg
 50 55 60
 Phe Ala Ser Tyr Ala Phe Phe Cys Ile His Pro Glu Asp Lys Ser Phe
 65 70 75 80
 Ser Gly Ile Thr Thr Gln Cys His Thr Pro Glu Asn Cys Tyr Glu Cys
 85 90 95

<210> 10722
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 10722
 Ser Gly Phe Asn Lys Ser Leu Asn Arg Val Tyr Ser Gly Val Val Tyr
 1 5 10 15
 Cys Thr Lys Arg Ser Arg Glu Arg Met Leu Gln Arg Thr Tyr Asp Ser
 20 25 30
 Ile Arg Phe Ser Gly Ser Ala Tyr Val Ala Gly Tyr Arg Arg Val Gln
 35 40 45
 Ala Ala Tyr Ala Ala Ser Arg Val Ser Pro Leu Ser
 50 55 60

<210> 10723
 <211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 10723

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Thr Ser Leu Gly Thr Gly Gly Ser Thr Val Met Gln Val Pro Glu Leu
1          5          10          15
Thr Asp Asp Ala Val Val Glu Leu Ala Arg Glu Gly Gly Val Ala Phe
          20          25          30
Ile Pro Lys Leu Ser Gly Gln Arg Thr Ile Ala Leu Ser Thr Leu Asn
          35          40          45
Glu Ala Gln Arg Gln Arg Val Asn Ile Leu Glu Gln Ala Ile Pro
          50          55          60
Arg Gly Gln Pro Pro Gly Gln Ala Ser Ser Pro Gly Ser Gly Asp Gln
65          70          75          80
Arg Tyr Phe Arg Ile Gln Ile Ile Trp Thr Arg His Asn Gln Ala Gln
          85          90          95
Tyr Thr Asp Ile Ile Val Leu Val Pro Glu Gln Glu Ala Pro Glu Ser
          100          105          110
Leu Ile Glu Leu Trp Gln Lys Gly Glu Gly Cys Val Cys Asp
          115          120          125

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<210> 10724

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 10724

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Arg Phe Ile Lys Gly Ile Leu Arg Val Asp Ile His Asp His Thr Gln
1          5          10          15
Ile Ser Glu Gln Gly Val Ala Asp Leu Ala Asp Thr Glu Phe Ala
          20          25          30
Gly Asn His Ser His Leu Pro Gly Asn Ile Thr Tyr Thr Leu Cys Ala
          35          40          45
Gly Asn Ile Ser Leu Phe Lys Leu His Asp Ala Thr Gly Lys Pro Phe
          50          55          60
Gln Ile Gln Pro Phe Arg Val Gly Ser Asp His Arg Val Ile Gly Gly
65          70          75          80
Leu Thr Glu Leu Leu Tyr Lys Leu Tyr Ile Thr Thr Arg Ile Tyr Cys
          85          90          95
Gly Ile Gly Asp Asp Phe Leu Glu
          100          105

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<210> 10725

<211> 284

<212> PRT

<213> Enterobacter cloacae

<400> 10725

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Phe Pro Leu Arg Asp Ser Asp His Lys Phe Ser Ile Pro Ile Phe Ser
1          5          10          15
Leu Glu Pro Val Pro Ser Ser Val Ile Leu Ser Ile Thr Leu Trp Ser
          20          25          30
Gln Glu Met Ser Arg Lys Ile Met Val Val Thr Ala Ala Tyr Gly Ala
          35          40          45
Asp Gln Val Arg Gln Ala Gly Gly Gln Arg Ala Met Leu Pro Val Ile
          50          55          60
Ala Gly Ala Gly Ala Asp Gly Val Glu Ile Arg Arg Glu Leu Phe Ser
65          70          75          80
His Asp Glu Leu Met Ala Leu Pro Ala Leu Gly Glu Ser Ile Glu Leu
          85          90          95
Leu Gly Leu Leu Ala Cys Tyr Ser Ala Pro Ala Pro Leu Phe Met Pro

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<210> 10726
<211> 96
<212> PRT
<213> Enterobacter cloacae
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<210> 10727
<211> 249
<212> PRT
<213> Enterobacter cloacae
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<400> 10727																
Gly	Gly	Thr	Met	Asn	Asp	Ala	Ile	Ile	Thr	Asp	Asn	Glu	Arg	Ile	Asn	
1				5					10					15		
Ile	Glu	Pro	Lys	Asp	Val	Met	Val	Lys	Gly	Ser	Asn	Lys	Lys	Gln	Gly	
			20					25					30			
Val	Asn	Ala	Gln	Thr	Ser	Thr	Gln	Arg	Arg	Pro	Glu	His	Gln	Gly	Met	
		35					40					45				
Ala	Lys	Val	Ile	Ile	Asn	Pro	Gly	Thr	Pro	Asp	Phe	Asn	Arg	Phe	Leu	
	50				55						60					
Thr	Ala	Arg	Asn	Gly	Ala	Val	Ile	Arg	Gly	Phe	Asp	Asp	Val	Ser	Ile	
65				70					75					80		
Ala	Ile	Ser	Ser	Leu	Phe	Lys	Thr	Val	Asp	Ala	Val	Lys	His	Pro	Asp	
				85					90					95		

Leu Val Gln Ala Ile Gln Asp Trp Phe Asn Glu Leu His Glu Glu Asn
 100 105 110
 Asn Lys Met Lys Glu Asn Leu Val Ala Tyr Ile Lys Ser Ile Glu Phe
 115 120 125
 Asp Lys Asn Asp Ser Phe Met Ser Ser Thr Gln Phe Val Pro Phe Ser
 130 135 140
 Phe Glu Pro Val Gln Leu Asn Phe Asn Asn His Asn Thr Met Arg Phe
 145 150 155 160
 Tyr Lys Tyr Ile Phe Glu Met Asn Gln Leu Met Asn Thr Met Tyr Glu
 165 170 175
 Tyr Asn Ser Leu Gly Leu Leu Ala Val Ser Asp Tyr Pro Val Met Ser
 180 185 190
 His Asn Ile Ile Lys Ser Ile Asn Leu Tyr Val Glu Asn Val Lys Lys
 195 200 205
 Thr Leu Asn Val Ser Arg Arg Lys Asp Gly Pro Tyr Ser Pro Ala Glu
 210 215 220
 Phe Ile Thr Lys Val Met Gln Tyr Lys Ser Val Gln Ala Tyr Ile Ala
 225 230 235 240
 Ala Glu Leu Ser Gly Lys Arg Arg
 245

<210> 10728

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 10728

Gly Met Met Met Asn Phe Arg Ala Leu Tyr Leu Cys Ile Lys Arg Ile
 1 5 10 15
 Leu Gly Ile Phe Ser Ser Gln Glu Asn Asp Ala Thr Ser Val Met Ile
 20 25 30
 Glu Asp Ile Ser Ser Leu Ser Pro Phe Ala Gln Ile Leu Gly Asp Gln
 35 40 45
 Lys Tyr Thr Val Pro Asp His Pro Asn Pro Glu Val Leu Lys Phe Ile
 50 55 60
 Glu Tyr Pro Thr Arg Pro Thr Gly Ile Gln Thr Phe Asn Glu Gln Ser
 65 70 75 80
 Ile Leu Ser Leu Tyr Arg Glu Lys Leu His Ser Ile Ser Met Met Leu
 85 90 95
 Ala Ile Ser Asp Ser Asp Ile Arg Asp Asp Ala Tyr Thr Phe Thr Asn
 100 105 110
 Leu Val Leu Lys Pro Leu Val Glu Tyr Val Arg Trp Ile His Leu Leu
 115 120 125
 Pro Ala Ser Glu Asn His His His Asn Gly Ile Gly Gly Leu Leu Ser
 130 135 140
 His Ser Leu Glu Val Ala Ile Leu Ser Leu Lys Asn Ala His His Ser
 145 150 155 160
 Glu Leu Arg Pro Ile Gly Tyr Gln Asp Glu Glu Val Val Arg Arg Lys
 165 170 175
 Val Tyr Leu Tyr Ala Ala Phe Ile Cys Gly Leu Val His Asp Ala Gly
 180 185 190
 Lys Val Tyr Asp Leu Asp Ile Val Ser Leu Asn Leu Ala Ser Pro Ile
 195 200 205
 Ile Trp Thr Pro Ser Ser Gln Ser Leu Leu Asp Trp Ala Arg Glu Asn
 210 215 220
 Asp Val Val Glu Tyr Glu Ile His Trp Arg Lys Arg Ile His Asn Gln
 225 230 235 240
 His Asn Ile Trp Ser Ser Val Phe Leu Glu Arg Ile Leu Asn Pro Val
 245 250 255
 Cys Leu Ala Phe Leu Asp Arg Val Asn Lys Glu Arg Val Tyr Ser Lys
 260 265 270

Met Ile Thr Ala Leu Asn Val Tyr Thr Asp Gly Asn Asp Phe Leu Ser
 275 280 285
 Lys Cys Val Arg Thr Ala Asp Phe Tyr Ser Thr Gly Thr Asp Leu Asn
 290 295 300
 Val Leu Arg
 305

<210> 10729
 <211> 208
 <212> PRT
 <213> Enterobacter cloacae

<400> 10729
 Arg Pro Leu Pro Asn Gly Gly Asn Ser Glu Cys Ile Thr Ser Val Gln
 1 5 10 15
 Phe Pro His Gln Arg Ala Phe Lys Asn Leu Leu Phe Val Lys Lys Asn
 20 25 30
 Gly Asn Phe Leu Arg Tyr Ser Asn Phe Thr Ser Gly Gly Val Met Ser
 35 40 45
 Asn Ser Asn Leu Ile Ser Ser Ile Glu Leu Thr Arg Lys Asn Leu Arg
 50 55 60
 Ala Gln Ile Glu Gly Leu Arg Val Glu Ala Glu Asp Leu Ile Thr Lys
 65 70 75 80
 Tyr Trp Ile Lys Trp Lys Glu Arg Asn His Gln Glu Ile Asn Leu Thr
 85 90 95
 Arg His Ser Lys Val Pro Lys Arg Glu Tyr Leu Gly Ser Tyr Ala Pro
 100 105 110
 Lys Val Glu Leu Ile Gly Asn Ala Arg Lys Val Thr Ile Thr Trp His
 115 120 125
 Gln Phe Ser Pro Tyr Lys Thr Arg Ala Pro Ser His Met Ser Lys Arg
 130 135 140
 Val Gln Pro Met Lys Ser Gly Lys Tyr Ser Lys Asn Cys Phe Val Asn
 145 150 155 160
 His Ala Ser Trp Glu Tyr Glu Met Ile Ser Glu Thr Glu Ala Leu Leu
 165 170 175
 Glu Pro Tyr Arg Glu Met Leu Glu Leu Tyr His Ser Ala Tyr Ile Glu
 180 185 190
 Leu Gly Arg Lys Ile Arg Gln Tyr Ser Lys Thr Lys Val Ala Gln
 195 200 205

<210> 10730
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 10730
 Leu Asn Ile Ser Asn Lys Ile Phe Phe His Leu Ile Val Phe Phe Met
 1 5 10 15
 Gln Leu Val Glu Pro Ile Leu Asn Ser Leu Asn Lys Val Arg Met Phe
 20 25 30
 Asn Cys Ile Asn Arg Phe Lys Glu Arg Gly Asn Ser Asp Thr His Ile
 35 40 45
 Ile Lys Thr Ser Asp Asp Cys Ser Ile Ser Gly Ser
 50 55 60

<210> 10731
 <211> 64
 <212> PRT
 <213> Enterobacter cloacae

<400> 10731

Ser Ser Lys Ile Ser Ile Ala Phe Gly Thr Leu Ser Lys Val Lys Gly
 1 5 10 15
 Arg Ser Val Ile Asp Thr Arg Cys Glu Val Met Lys Pro Pro Ala
 20 25 30
 Ile Phe Asn Lys Ser Phe Phe Asp Ser Lys Ser Lys Ser Lys Leu Leu
 35 40 45
 Thr Phe Ile Thr Ser Leu Ser Asp Leu Ala Phe Lys Thr Lys Glu
 50 55 60

<210> 10732

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 10732

Leu Glu Gln Phe Gln Arg Val Ser Leu Phe Ala Phe Pro Trp Leu Phe
 1 5 10 15
 Pro Ile Thr Val Cys Arg Val Asn Lys Ser Leu Trp Gly Glu Ile Val
 20 25 30
 Cys Ser Ala Asp Ala Phe Asn Ala Asp Asp Gln Trp Tyr Asp Val Val
 35 40 45
 Arg Arg Ala Asp Asn Ala Val Ile Tyr Ser Phe Pro Ala Glu Gly Arg
 50 55 60
 Tyr Leu Val Tyr Arg Val Asn Gly Ile Val Ser Leu Arg Pro Leu Leu
 65 70 75 80
 Glu Glu Glu Glu Ile Phe Thr Leu Asn Gly Phe Met Gln Phe Ala Lys
 85 90 95
 Arg Leu Gly Tyr Arg Ile Thr Pro Pro Ser Asp Ile Ile Leu Ser
 100 105 110

<210> 10733

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 10733

Cys Ala Thr Glu Arg Thr Met Ala Leu Glu Leu Gln Leu Ile Lys His
 1 5 10 15
 His Ser Gly Ile Leu Ile Pro Ala Thr Pro Glu Thr Ser Asp Ile Leu
 20 25 30
 Gln Ser Lys Thr Arg Leu Gly Asp Val Leu Val Ala Glu Phe Arg Arg
 35 40 45
 Val Arg Lys Pro Ala Phe His Arg Arg Phe Phe Ala Leu Leu Asn Leu
 50 55 60
 Gly Phe Glu Tyr Trp Glu Pro Thr Gly Gly Ala Ile Ser Ser Asn Glu
 65 70 75 80
 Arg Lys Leu Ile Thr Gly Tyr Ala Lys Leu Leu Ala Ser Tyr Gly Gly
 85 90 95
 Asn Glu Gly Ala Leu Ile Asp Ala Ala Glu Gln Tyr Leu Glu Gln Val
 100 105 110
 Ala Tyr Arg Arg Val Thr Asn Gly Ile Ser Leu Cys Lys Ser Phe Asp
 115 120 125
 Ala Tyr Arg Ser Trp Val Ile Val Glu Ala Gly His Phe Asp Ala Ile
 130 135 140
 Gln Leu Pro Asp Gly Thr Leu Lys Lys His Pro Arg Ser Ile Ser Phe
 145 150 155 160
 Ala Asn Met Asp Glu Phe Glu Phe Gln Gln Leu Tyr Lys Ala Ala Leu
 165 170 175
 Asp Val Leu Trp Arg Trp Val Leu Ser Arg Ser Phe Arg Ser Arg Asp
 180 185 190
 Glu Ala Glu Asn Val Ala Ala Gln Leu Leu Gly Phe Ala Gly

195

200

205

<210> 10734

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10734

Ala	Glu	Gly	Arg	Phe	Ser	Arg	Thr	Phe	Leu	Gln	Ser	Val	Gln	Pro	Ala
1				5				10						15	
Arg	Gly	Asn	Glu	Cys	Cys	Asp	His	Phe	His	Arg	Glu	Ala	Pro	Gly	Thr
		20					25					30			
Thr	Pro	Ser	Val	Ile	Ala	Asn	Leu	Ala	Ile	Tyr	Ala	Cys	Phe	Ser	Glu
		35				40					45				
Gln	Ala	Phe	Phe	Ser	Phe	Ile	Asn	His	Pro	Phe	Asp	Leu	Leu	Pro	Val
	50					55					60				
Asp															
65															

<210> 10735

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 10735

Lys	Gln	Met	Ala	Gly	His	Ser	Glu	Glu	Met	Val	Cys	Tyr	Glu	Arg	Glu
1				5				10						15	
Ala	Asp	Ser	Thr	Val	Asp	Phe	Ile	Asn	Thr	Gln	Gly	Leu	Leu	Leu	Lys
		20					25					30			
Ile	Val	Ile	Gln	Phe	Tyr	Cys	Met	Arg	Tyr	Pro	Ile	Ile	Val	Leu	Pro
		35				40					45				
Phe	Tyr	Ser	Phe	Ile	Val	Ser	Phe	Ile	Tyr	Asp	Ile	Asn	Gly		
	50					55					60				

<210> 10736

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10736

Ile	Tyr	Ile	Leu	Ala	Ile	Leu	Ser	Arg	Val	Ala	Cys	Pro	Ser	Lys	Arg
1				5				10						15	
Leu	Tyr	Cys	Ala	Cys	Ser	Gly	Glu	Asn	Leu	Pro	Ile	Leu	Phe	Ser	Gly
		20					25					30			
Tyr	Arg	Ala	Ser	Leu	Pro	Phe	Ser	Trp	Ala	Glu	Glu	Val	Thr	Arg	Val
		35				40					45				
Ser	Glu	Thr	His	Ala	Ser	Asp	Glu	Ala	Tyr	Ser	Ala	Ala	Leu	Ser	Val
	50					55				60					
Phe	Gly	Glu	Lys	Asp	Leu	Val	Glu	Leu	Thr	Ile	Val	Ile	Ala	Thr	Met
65					70				75					80	
Asn	Ala	Ile	Asn	Arg	Met	Gly	Ile	Ser	Phe	Arg	Met	Lys	Pro	Leu	Ala
				85				90						95	
Lys	Ala														

<210> 10737

<211> 87

<212> PRT

<213> Enterobacter cloacae

<400> 10737

Ala	Ser	Leu	Lys	Ser	Pro	Pro	Leu	Ala	Val	Lys	Arg	His	Leu	Met	Lys
1				5					10					15	
Leu	Arg	Ile	Thr	Arg	Ala	Ile	Gly	Leu	Ser	Lys	Phe	Ser	Pro	Arg	Trp
			20					25					30		
Val	Lys	Val	Ile	Cys	Leu	Arg	Leu	Thr	Lys	Asn	Asp	Ile	Glu	Arg	Ser
		35					40					45			
Leu	Asn	Ala	Leu	Leu	Ala	Thr	Ile	Asp	Glu	Ser	Glu	Leu	Thr	Pro	Glu
	50					55					60				
Gln	Val	Lys	Ala	Leu	Arg	Glu	Cys	Ile	Asp	Arg	Ile	Asn	Ile	Ala	Arg
65					70				75						80
Gly	Lys	Gly	Met	Gln	Ala										
				85											

<210> 10738

<211> 274

<212> PRT

<213> Enterobacter cloacae

<400> 10738

Trp	Arg	Lys	Asp	Asn	Gln	His	Thr	Ser	Glu	Ser	Asp	Asn	Leu	Ser	Arg
1				5					10					15	
Ser	Leu	Leu	Gly	Lys	Leu	Phe	Arg	Ser	Glu	Ile	Ser	Leu	Ile	Ser	Ser
			20					25					30		
Tyr	Arg	Ala	Cys	Leu	Met	Leu	Leu	Leu	Val	His	Gly	Tyr	Ser	Ala	Tyr
		35					40					45			
Gln	Thr	Gly	Thr	Pro	Leu	Leu	Gln	Arg	Arg	Leu	Phe	Gly	Lys	Gly	Phe
	50					55					60				
Ser	Thr	Ala	Ala	Asp	Leu	Ala	Phe	Glu	Val	Glu	Thr	Arg	Pro	Gly	Ser
65				70					75						80
Phe	Leu	Val	Pro	Arg	Thr	Leu	Gly	Lys	Glu	Ile	Thr	Trp	Glu	Arg	Phe
			85						90					95	
Phe	Ser	Ala	Val	Leu	Asp	Gly	Asp	Ser	Asn	Val	Ile	Arg	Glu	Tyr	Asp
			100					105					110		
Thr	Asn	Asp	Ile	Asp	Tyr	Gly	Ile	Tyr	Asp	Ala	Gly	Glu	Lys	Val	Thr
		115					120					125			
Phe	Leu	Asn	Gly	Thr	Val	Asp	Ile	Tyr	Asn	Pro	Lys	Lys	Ile	His	Glu
	130					135					140				
Leu	Arg	Ser	Lys	Cys	Val	Asp	Ile	Gln	Asn	Asp	Tyr	Phe	Met	Gln	Val
145				150						155					160
Phe	Phe	Ile	Ser	Met	Leu	Ala	Pro	Glu	Phe	Val	Ser	Ile	Phe	Phe	Gly
			165					170						175	
Leu	Lys	Pro	Thr	Thr	Ala	Asp	Ala	Ile	Lys	Asp	Ile	Gly	Tyr	Ser	Ser
			180					185					190		
Leu	Lys	Thr	Ile	Asn	Asp	Val	Val	Leu	Phe	Pro	Arg	Thr	Ile	Ala	Phe
		195					200					205			
Ser	Gln	Gly	His	Ile	Glu	Glu	Ser	Val	Ser	Leu	Lys	Thr	Lys	Val	Phe
	210					215						220			
Ala	Trp	Ala	Tyr	Glu	Leu	Ser	Ala	Asp	Ile	Arg	Leu	Gly	Lys	Val	Ser
225					230					235					240
Asp	Asp	Leu	Met	Glu	Leu	Leu	Arg	Tyr	Asp	Thr	Met	Phe	Thr	Ser	His
			245						250					255	
Arg	Gln	Asp	Val	Phe	Asn	Thr	Leu	Thr	Asn	Lys	Val	Met	Leu	Lys	Asp
			260					265					270		

Tyr

<210> 10739

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 10739

Gly Asn Lys Met Lys Lys Leu Met Met Leu Val Ile Ser Gly Thr Val
 1 5 10 15
 Leu Ala Gly Cys Val Ser Pro Ala His Ala Ile Asn Ala His Tyr Arg
 20 25 30
 Ala Gln Leu Glu Arg Ser Gly Cys Thr Gln Ile Ser Ala Gly Asn Gly
 35 40 45
 Ser Cys Asp Val Ser Lys Thr Lys Ala Glu Asn Thr Ala Gln His Glu
 50 55 60
 Pro Thr Ala Ser Val His Asp Pro Leu Arg Glu Ala Ser Phe Ser Ser
 65 70 75 80
 Asp Thr Val Asn Ala Thr Leu Ser Asn Gly Phe Phe Ser Ala Thr Val
 85 90 95
 Asn Gly Lys Lys Ala Ser Val Lys Arg Leu Asn Ala Asn Phe Tyr Glu
 100 105 110
 Ile His Gly Asn Gly Phe Val Ile Ser Ile Ser Leu Asp Glu Asn Gly
 115 120 125
 Ile Thr Asp Ala Ser Trp Asn Lys Thr Lys Gly Arg Glu His Gly Val
 130 135 140
 Leu Arg Val Ser Gln Lys
 145 150

<210> 10740

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10740

Gly Val Val Leu Glu Trp Lys Glu Ser Phe Arg Tyr Val Phe Asp Asn
 1 5 10 15
 Gln Tyr Tyr Lys Lys Ile Phe Leu Leu Asn Glu Lys His Asn Ser Leu
 20 25 30
 Phe Asp Ile Val Phe Asn Tyr Tyr Ala Ile Ile Trp Leu Arg Ile Phe
 35 40 45
 Thr Gly Ser Ala Ser Gly Ser Cys Trp Lys Thr Gly Asp Asp His Arg
 50 55 60
 Lys Cys Lys Arg Ser Ser Gly Glu Ala Asp
 65 70 75

<210> 10741

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 10741

Lys Val Lys Lys Gln Met Gly Pro Glu Lys Asn Ala Ala Asn Ile Glu
 1 5 10 15
 Pro Phe Val Thr Gly Leu Asn Gly Leu Phe Val Tyr Cys Phe Val Thr
 20 25 30
 Gln Gly Thr Gly Gln Gly Arg Thr Pro Phe Val Trp Gly Arg Leu His
 35 40 45
 Phe Met Leu Asn Lys Asn Ser Ser Leu Arg Met Ile Cys Gln His Cys
 50 55 60
 Lys Ile Arg Gln Lys Ser Val Thr Asn Arg Ala Ile Gly Arg Arg Lys
 65 70 75 80
 Gly Gly Arg Glu Pro Pro Tyr Ala Val Tyr Phe
 85 90

<210> 10742

<211> 97

<212> PRT

<400> 10742

<210> 10743

<212> PRT

<400> 10743

<210> 10744

<211> 112

<212> PRT

<400> 10744

<210> 10745

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10745

Lys Ala Ala Cys Trp Pro Leu Pro Phe Arg Glu Ala Ile Ala Thr Gly
 1 5 10 15
 Asp Gly Tyr Tyr Leu Val Trp Pro Lys Asn Ser Leu Lys Arg Glu Ser
 20 25 30
 Ile Gln His Leu Leu Ala Trp Leu Gln Asn His Thr Pro Val Val Pro
 35 40 45
 Ala Leu Asp Ile Asp Tyr Leu Glu Tyr Asp Asp Ser Arg Val Tyr
 50 55 60

<210> 10746

<211> 240

<212> PRT

<213> Enterobacter cloacae

<400> 10746

Lys Cys Val Cys Leu Ile Val Arg Leu Ser Gly Lys Ser Ile His Ser
 1 5 10 15
 Gly Ile Ala Arg His Ala Phe Arg Arg Asp Lys Met Lys Ile Ala Leu
 20 25 30
 Met Met Glu Asn Ser Gln Ala Ala Lys Asn Pro Ile Ile Leu Asn Glu
 35 40 45
 Leu Lys Ala Val Ala Asp Glu Lys Gly Phe Pro Val Tyr Asn Val Gly
 50 55 60
 Met Ser Asp Glu Asn Asp His His Leu Thr Tyr Ile His Leu Gly Ile
 65 70 75 80
 Met Ala Ser Ile Leu Leu Asn Ala Lys Ala Val Asp Phe Val Val Thr
 85 90 95
 Gly Cys Gly Thr Gly Gln Gly Ala Leu Met Ser Leu Asn Ile His Pro
 100 105 110
 Gly Val Ile Cys Gly Tyr Cys Ile Asp Pro Ala Asp Ala Phe Leu Phe
 115 120 125
 Ala Gln Ile Asn Asn Gly Asn Ala Leu Ser Leu Pro Phe Ala Lys Gly
 130 135 140
 Phe Gly Trp Gly Ala Glu Leu Asn Val Arg Phe Ile Phe Glu Lys Ala
 145 150 155 160
 Phe Thr Gly Arg Asn Gly Glu Gly Tyr Pro Glu Arg Lys Glu Pro
 165 170 175
 Gln Val Arg Asn Ala Gly Ile Leu Asn Gln Val Lys Ala Ala Val Val
 180 185 190
 Lys Glu Asn Tyr Leu Asp Thr Leu Arg Ala Ile Asp Pro Glu Leu Val
 195 200 205
 Lys Thr Ala Val Ser Gly Gln Arg Phe Gln Gln Cys Phe Phe Glu Asn
 210 215 220
 Cys Gln Asp Lys Glu Ile Glu Ala Phe Val Arg Gly Ile Val Gly
 225 230 235 240

<210> 10747

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 10747

Ile Val Ile Met Arg Gly Thr Gly Ala Asn Met Thr Leu Asp Ala Leu
 1 5 10 15
 Phe Gln Leu Met Lys Ile Ile Ser Pro Glu Thr Pro Ser Asp Gly
 20 25 30
 Asn Leu Ala Asn Phe Met Thr Met Leu Ile Ser Thr Lys Asn His Ser
 35 40 45
 Asp Ala Leu Leu Pro Phe Ser Gln Arg Ala Tyr Met Leu Ser Val Ala
 50 55 60

Tyr Ser Asp Pro Gln Lys Ala Ala Ala Leu Leu Ser Ser Cys Gln Pro
 65 70 75 80
 Gly Ala Gly Asn Pro Leu Pro Leu Leu Asn Phe Ser Gly Trp Pro Asp
 85 90 95
 Val Arg Tyr Ala Thr Ser Gly Glu Leu Gln Thr Pro Glu Ser Glu Asp
 100 105 110
 Tyr Phe His Lys Ile Ser Ser Ala Ala Thr Leu Leu Arg Ala Ala Ile
 115 120 125
 Ile Asp Ala Glu Gln Gln Lys Asn Thr Pro Ala Phe Tyr Ile Leu Asp
 130 135 140
 Lys Val Leu Ser Leu Asn Ser Ala Leu Pro Glu Arg Tyr Lys Lys Met
 145 150 155 160
 Ala Asn Ile Ser Tyr Ser
 165

<210> 10748

<211> 270

<212> PRT

<213> Enterobacter cloacae

<400> 10748

Glu Thr Ile Ala Val Met Glu Asn Val Lys Gln Ser Ala Pro Pro Pro
 1 5 10 15
 Asp Phe Val Val Glu Ala Met Gly Glu Tyr Val Glu Lys Tyr Ile Thr
 20 25 30
 Ala Ile His Phe Ile Pro Arg Asp Asp Arg Asp Pro Pro Gly Asp
 35 40 45
 His Trp Gly Thr Gly Trp Leu Val Glu Glu Cys Asn Arg Pro Leu Leu
 50 55 60
 Ala Thr Cys Glu His Val Ala Ser Lys Gln Leu Glu Gly Ile Leu Gly
 65 70 75 80
 Tyr Ser Cys His Gly Ser Glu Ser Gly Ile Ser Val Gly Gly Lys Phe
 85 90 95
 Thr Val Tyr Pro Phe Glu Leu Asp Phe Ala Arg Ala Asp Ile Ser Lys
 100 105 110
 Thr Phe Asn Met Val Asp His Lys Gly Glu Cys Thr Asn Lys Glu His
 115 120 125
 Tyr Ala Asp Ser His Ser Pro Val Ala Asp Glu Tyr Leu Tyr Val Tyr
 130 135 140
 Gly Phe Pro Gly Val Asp Ala Gln Ala Gly Phe Gly Gln His Glu Ile
 145 150 155 160
 Arg Gly Met Gly Val Phe Leu Arg Glu Val Glu Phe Asp Pro Ser Ala
 165 170 175
 Phe Thr Glu Ala Pro Val Pro Val Leu Gly Glu His Ile Ser Cys Ala
 180 185 190
 Trp Ser Thr Asn Leu Ala Ser Pro Leu Met Gly Thr Thr Gly Asn Leu
 195 200 205
 Ser Leu Pro Asp Gly Met Ser Gly Ser Pro Leu Trp Asn Thr Arg Tyr
 210 215 220
 Thr Glu Val Thr Asn Ala Gly Gly Ile Trp Thr Pro Cys Asp Ser Arg
 225 230 235 240
 Ile Thr Gly Ile Val Trp Gly His Ser Ala Lys Met Thr Arg Leu Phe
 245 250 255
 Ala Thr Pro Val Glu Ser Phe Lys Asp Leu Leu Phe Lys
 260 265 270

<210> 10749

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10749

Ser Ile His Val Val Tyr Pro Arg Gln Lys His Arg Gly Arg Leu Tyr
 1 5 10 15
 Leu Gln Ser Pro Cys Asp Ser Lys Ser Lys Gly Gly His His Arg Leu
 20 25 30
 Thr Phe Ile Lys Leu Thr Phe Gly Lys Arg Ile Cys Ala Thr Ala Leu
 35 40 45
 Gln Trp Asp Pro Gly Lys Arg Cys Ile Asp Phe Ala
 50 55 60

<210> 10750

<211> 672

<212> PRT

<213> Enterobacter cloacae

<400> 10750

Gly Thr Lys Met Arg Gly Ser Lys Glu Lys Ser Met Pro Asp Val Leu
 1 5 10 15
 Asp Ser Ala Gln Leu Val Arg Ile Glu Ala Val His Arg Gly Phe Leu
 20 25 30
 Tyr Gln His Leu Tyr Ala Val Gly Cys Leu Leu Leu Ala Gln Lys Ala
 35 40 45
 Ser Val Glu Thr Val Thr Val Glu Leu Asp Glu Asp Ile Glu Leu Asn
 50 55 60
 Ser Arg Gln Glu Arg Ile Tyr Val Gln Val Lys Thr Arg Leu Lys Pro
 65 70 75 80
 Ile Ile Leu Ser Asp Val Ser Gly Ala Leu Ala Arg Phe Ala Glu Leu
 85 90 95
 Arg Asn Glu His Thr Asp Gly Arg Arg Gln Gly Ser Ala Ser Phe Val
 100 105 110
 Ile Val Ala Asn Gln Ala Pro Gly Pro His Leu Gln Lys Met Ile Glu
 115 120 125
 Asp Lys Thr Leu Pro Ala Asp Val Arg Phe Ile Trp Pro Gln Ser Thr
 130 135 140
 Ala Glu Arg Tyr Pro Val Leu Pro Pro Ala Trp Asp Thr Val Ala Asp
 145 150 155 160
 Ala Ala Ala Trp Cys Ile Ala Gln Ala Glu Gln Leu Asn Phe Ser Leu
 165 170 175
 Leu Ser Pro Glu Ser Leu Ile Trp Lys Leu Ala Gly Leu Val Gln Leu
 180 185 190
 Ala Ala Thr Gly Gly Asp Ala Asp Gly Gln His Ala Phe Tyr Thr Arg
 195 200 205
 Asp Leu Pro Ala Leu Phe Glu Gln Leu Ile Val Gln Leu Gln Asp Phe
 210 215 220
 Pro Ala Pro Pro Thr Leu Tyr Arg Pro Gln Arg Glu Glu Pro Ser Phe
 225 230 235 240
 Val Ser Asp Glu Arg Ile Arg Ile Ile Cys Gly Leu Ser Gly Ala Gly
 245 250 255
 Lys Thr Ala Trp Ala Ala Gln Ala Ala Gln His Ser Thr Gln Val Cys
 260 265 270
 Ala Tyr Tyr Asp Ala Gly Asp Leu Pro Gly Pro Ala Leu Ala Ser Thr
 275 280 285
 Leu Val Arg Glu Leu Ala Ala Arg Phe Ala Thr Gln Glu Gln Gly Gly
 290 295 300
 Leu Arg Arg Ile Leu Leu Pro Gly Ala Ser Gly Val Glu Ala Leu Arg
 305 310 315 320
 Thr Phe Asp Thr Phe Leu Gln Gln Arg Asn Asp Asn Leu Leu Leu Val
 325 330 335
 Leu Asp Asn Ala His Arg Ile Pro Val Glu Asn Leu Arg Asp Val Leu
 340 345 350
 His Ala Thr Thr Arg Ile His Phe Val Leu Leu Cys Gln Pro His Asp

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      355              360              365
Asn Val Arg Gln Leu Glu Ala Met Thr Gly Leu Gln Arg Glu Ser Leu
  370              375              380
Gln Gly Trp Asp Ile Asp Thr Val Ala Ala Val Ala Asp Leu Gly
385              390              395              400
Gly His Ala Ser Ala Leu Gly Tyr Glu Gln Leu Arg Ser Tyr Thr Gly
      405              410              415
Gly Leu Pro Leu Tyr Val Glu Ser Ala Ala Arg Val Ala Ala Glu Glu
      420              425              430
Tyr Lys Gly Asp Ile Asp Thr Leu Cys Ala Glu Leu Arg Gln Gln Glu
      435              440              445
Asn Ser Thr Glu Thr Ala Gln Glu Val Ile Leu Ser Arg Val Tyr Gln
      450              455              460
Gly Phe Glu Pro Leu Val Gln Asn Ala Leu Ala Leu Phe Ser Leu Ser
465              470              475              480
Asp Val Gly Leu Ser Arg Asp Glu Val Ser Gly Tyr Leu Ala Arg Ser
      485              490              495
Leu Asn Ile Pro Pro Asn Gly Ala Ala Thr Leu Ile Lys Lys Met Arg
      500              505              510
Ala Thr Gly Thr Ile Glu Asn Tyr Gly Asn Gln Thr Leu Lys Val His
      515              520              525
Asp Ala Val Arg Ala Leu Gly Leu Gln His Leu Thr Met Met Asp Val
530              535              540
Asp Ile Val Asn Asn Ala Leu Leu Ala Leu Lys Asp Leu Leu Ile Glu
545              550              555              560
Ser Leu Gln Gln Glu Arg Asp Thr Ser Arg Phe Ser Leu Leu Thr Gln
      565              570              575
Ile Tyr Ile Lys Leu Asn Asp Val Met Thr Leu Ile Gly Leu Ser Gly
      580              585              590
Glu Glu Leu Phe Tyr Glu Met Gly Ile Thr Val Asp Ile Met Glu Ser
      595              600              605
Leu Lys Gln Ala Thr Ala Ser Asp Ser Leu Ala Pro Leu Gln Lys Phe
610              615              620
Trp Ala Leu Asp Gly Leu Val Phe Ser Glu Leu Lys Asp Gly Val Ser
625              630              635              640
Glu Gln Ile Ala Gln Trp Leu Glu Ala Met Gly Ala Leu Leu Thr Glu
      645              650              655
His Glu Phe Gly Cys Pro Asp Ser Tyr Leu Cys Lys Ser Glu Asp
      660              665              670

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<210> 10751

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 10751

```

Val Gln Glu Thr Met Met Arg Ile Leu Cys Leu Asp Ile Pro Ala Pro
1              5              10              15
Gly Ala Ser Leu Glu Lys Tyr Ala Pro His Leu Asn Ala Glu Ala Leu
      20              25              30
His Ala Trp Gly Leu Tyr Lys Ser Gly Phe Ile Arg Asp Ile Tyr Phe
      35              40              45
Arg Gln Asp Arg Pro Gly Val Ala Ile Phe Leu Glu Cys Asp Ser Val
      50              55              60
Asp Glu Ala Met Asn Val Met Ala Glu Phe Pro Leu Ala Lys Ala Gly
65              70              75              80
Leu Leu Ser Phe Glu Cys Ile Pro Leu Gly Ser Phe Ile Asn Trp Glu
      85              90              95
Asn Leu Phe Ala Ala Glu Phe Lys Asn Lys Glu
      100              105

```

<210> 10752
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<400> 10752

```

Asn Leu His Ser Trp Glu Trp His Asp Phe Asp Gln Glu Ser Thr Glu
1      5      10      15
Val Glu Ala Asp Glu Phe Asp Gln Tyr Asn Phe Asp Val Glu Lys Asn
20     25     30
Asp Val Val Thr Arg Glu Phe Trp Ala Gly Ser Val Ala Thr Gly His
35     40     45
Arg Tyr Ala Ile Gly Phe Val Lys Ser Glu Asn His Ser Met Leu Asn
50     55     60
Ser Phe Leu Gly Asn Ala Gln His Asn Gly Lys Ser Leu Thr Ile Pro
65     70     75     80
Glu Ser Gly Ala Trp Val Val Ser Phe Asp Leu Ala Asp Gly Glu Asn
85     90     95
Ser Tyr Glu His Val Glu Leu Asp Pro Arg Ala Leu Arg Asn Leu Val
100    105    110
Asp Gly Val Ala Arg Ala Leu Tyr Asp His Tyr Asn Val Ser Lys Ala
115    120    125
Gly Leu Tyr Phe Trp Ile Ala Ala Arg Glu Glu Leu Val Ser Ile Tyr
130    135    140
Asp Lys Ala Leu Gly Leu Val Pro Glu Lys Thr Leu Lys Leu Lys Pro
145    150    155    160
Leu Pro Leu Thr Glu Asn Leu Asn Gln Leu Gly Glu Asn Gly Arg Gly
165    170    175
Tyr Ala Ile Ile Thr Lys Tyr Tyr
180                                185

```

<210> 10753
 <211> 202
 <212> PRT
 <213> Enterobacter cloacae

<400> 10753

```

Ala Arg Thr Gly Gly Val Met Pro Ser Ser Arg Asn Thr Thr Glu Asn
1      5      10      15
Pro Thr Ala Asp Gln Leu Tyr Glu Glu Val Thr Arg Lys Leu Lys Thr
20     25     30
Ala Ser Ser Asn Ile Ala Lys Arg Lys Leu Glu Ser Gly Glu Tyr Val
35     40     45
Met His Asn Gly Arg Ile Ile Pro Ala Ser Val Leu Glu Glu Ala Asn
50     55     60
Ala Glu Asn Ala Ile Ser Lys Arg Arg Ser His Gly Ala Ile Pro Leu
65     70     75     80
Pro Ser Phe Thr Arg Lys Ser Glu Glu Ala Arg Pro Leu Val Pro Val
85     90     95
Trp Ile Gly Gly Asp Glu Gln Asp Asn Gly Glu Trp Lys Gly Ser Arg
100    105    110
Lys Ser Ile Ala Ala Ala Ser Val Gln Thr Ser Leu Arg Pro Pro Met
115    120    125
Arg Val Arg Ala Ala Ala His Phe Arg Gly Lys Thr Gln Thr Val Asp
130    135    140
Val His Leu Asp His Ser Gly Ile Ala Pro Lys His Gly Gln Ile Phe
145    150    155    160
Ala Tyr Asp Ala Lys Ser Gly Gln Phe Ile Pro Val Ile Ser Gly Ser
165    170    175
Gly Thr Met Ala Gln Asp Asn Arg Arg Ala Lys Asp Arg Lys His Ala
180    185    190

```

Gly Leu Leu Ala Ala Arg Lys Ser Lys
 195 200

<210> 10754

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 10754

Arg	Gln	Gly	Arg	Ser	Val	Met	Leu	Asn	Arg	Asn	Leu	Glu	Val	Leu	Thr
1				5					10					15	
Ser	Tyr	Phe	Asn	Asp	Leu	Leu	Glu	Ser	Ala	Pro	Gln	His	Arg	Asp	Asn
			20					25					30		
Val	Val	Ala	Ile	Leu	Ala	Gln	Ile	Glu	Ile	Met	Lys	Ser	Arg	Pro	Val
		35					40						45		
Phe	Ser	Leu	Glu	Pro	Ser	Ile	Leu	Leu	Ala	Arg	Lys	Glu	Ile	Asp	Lys
	50					55					60				
Cys	Thr	Ile	Cys	Lys	Lys	Gln	Val	Leu	Cys	Asp	Glu	Trp	Pro	Glu	Thr
65					70					75					80
Leu	Phe	Cys	Gly	Leu	Pro	Val	Ser	Asp							
				85					90						

<210> 10755

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 10755

Ala	Arg	Ala	Cys	Ser	Leu	Ser	Thr	Gly	Gly	Val	Tyr	Gly	His	Asn	His
1				5					10					15	
Asp	Leu	His	Leu	Asn	Leu	Arg	Lys	Lys	Leu	Leu	Thr	Ile	Thr	Asp	Thr
			20					25					30		
Gln	Asn	Arg	Thr	Asn	Asp	Leu	Phe	Asn	Gln	Val	Arg	Gln	Glu	Leu	Ser
		35					40					45			
Leu	Tyr	Gly	Ile	Glu	Phe	Glu	Asp	Ile	Thr	Val	Thr	Gln	His	Leu	Asn
	50					55					60				
Val	Arg	Ala	Gly	Gln											
65					70										

<210> 10756

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 10756

Ser	Arg	Asp	Leu	Phe	Ser	His	Trp	Ser	Pro	Gln	Ser	Cys	Trp	Pro	Val
1				5					10					15	
Lys	Lys	Ser	Ile	Ser	Ala	Gln	Tyr	Val	Arg	Ser	Arg	Cys	Ser	Val	Met
			20					25					30		
Ser	Gly	Gln	Lys	Arg	Tyr	Phe	Val	Val	Ser	Arg	Tyr	Pro	Thr	Asp	Ser
		35					40					45			
Glu	Pro	Lys	Gly	Ile	Gly	Phe	Ser	Pro	Val	Gly	Asp	Gly	Lys	Val	Pro
	50					55					60				
Glu	Glu	Tyr	Leu	Thr	Phe	Arg	Leu	Asp	Val	Glu	His	Val	Ile	Gln	Thr
65					70					75					80
Ile	Asn	Ala	Leu	Phe	Glu	Asn	Asp	Lys	Val	Lys	Arg	Leu	Glu	Ala	Tyr
				85					90					95	
Glu	Gln	Val	Phe	Gln	Ser	Ala	Gln	Val	Arg	Phe	Ser	Gly	Arg	Glu	Thr
			100					105					110		
Asp	Phe	Val	Pro	Ala	Ser	Gln	Ala	Leu	Asn	Glu	Leu	Lys	Lys	Thr	Ile
		115					120					125			

Leu Ser Ser Ser Trp Val Phe Val Arg Asn Arg Ile Met Gly Val Tyr
 130 135 140
 Gly Leu Tyr Ala Leu Leu Ile Ile Ile Leu Gly Met Thr Gln Tyr
 145 150 155 160
 Phe Phe Thr Ala Glu Leu Lys Asn Val Pro Ala Val Leu Ile Gly Thr
 165 170 175
 Cys Thr Gly Ser Trp Leu Phe Val Ser Ile Lys Thr Lys Asn Ile Val
 180 185 190
 Phe Asp Glu Ile Tyr Glu Asn Met Ser Gln His Arg Ser Leu Leu Met
 195 200 205
 Arg Leu Ile Tyr Cys Cys Thr Leu Ser Ser Ala Val Thr Ala Cys Leu
 210 215 220
 Leu Ala Gly Phe Phe Glu Ile Lys Ile Gly Glu Val Ser Thr Ala Leu
 225 230 235 240
 Ile Pro Asp Asn Ala Ile Ile Ala Leu Ala Ala Gly Ile Phe Phe Gly
 245 250 255
 Leu Gly Glu Ser Ser Leu Ala Thr Arg Leu Ser Gly Lys Val Lys Asn
 260 265 270
 Ser Ile
 275

<210> 10757

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 10757

Arg His Ser Pro Lys Thr Ile Pro Leu Asn Thr Phe Gln Lys Trp Phe
 1 5 10 15
 Asp Leu Leu Tyr Asn Ile Ile Tyr Met Leu Arg Lys Gln Asn Glu Phe
 20 25 30
 Ile Cys Ser Glu Cys Ile Asn Glu Lys Ile Gly Ser Arg Val Gly Trp
 35 40 45
 Val Ile Gly Gly Leu Asn Ile Tyr Gly Ile Val Gln Arg Ala Ala Asp
 50 55 60
 Ser Ala Asp Asn Leu Lys Asn Phe Cys Pro Ile Phe Tyr Asn Ala Leu
 65 70 75 80
 Tyr Arg Glu Gly Leu Glu Met Met Tyr Phe Leu Ile Glu Pro Met Ile
 85 90 95
 Met Lys Ser Cys Tyr Leu Asn Ile Ser Thr Ala Ser Asp Glu Glu Ile
 100 105 110
 Val Arg Ala Leu Lys Arg Met Met
 115 120

<210> 10758

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 10758

Phe Thr Pro Gln Ile Lys Thr Met Asn Ser Phe Met Asp Thr Phe Lys
 1 5 10 15
 Ser Glu Ile Asn Ile Thr Leu Leu Gly Lys Asp Met Phe Asp Asp Arg
 20 25 30
 Met Asn Ile Ala Arg Glu His Val Met Tyr Tyr Ser Glu Glu Ile Ile
 35 40 45
 Lys Gln Pro Gly Thr Asp Lys Glu Leu Ala Val Arg Leu Asp Lys Ala
 50 55 60
 Leu Ile Gly Val Lys Glu Gly Val Gln Tyr Tyr Val Asn Gly Leu Gly
 65 70 75 80
 Asp Ala Thr Thr Arg Leu Leu Tyr Tyr Thr Ser Cys Leu Thr Glu Asn

```

      85      90      95
Tyr Gln Asp Val Cys Lys Lys Leu Gly Ser Glu Asp Val Arg Phe Ile
      100      105      110
Cys Ala Leu Tyr Glu Leu Val Lys His Arg Asn Val Ile Phe Arg Met
      115      120      125
Leu Asn Ile Tyr Ile Glu Thr Leu Leu Lys Asn Lys Ser Asp Val Glu
      130      135      140
Lys Lys Thr Ile Leu Glu Asn Leu Thr Pro Phe Ala Lys Asn Tyr Pro
145      150      155      160
Ile Lys Tyr Ile Ser Lys Met Val
      165

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<210> 10759
<211> 61
<212> PRT
<213> Enterobacter cloacae

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<400> 10759
Pro Ile Ser Pro Gly Glu Cys Asp Leu Ile Cys Lys Trp Gln Ile Ile
1      5      10      15
Ile Ala Asp Ile His Leu Asn Ala Phe Ser Pro Ala Ser Ser Leu Leu
      20      25      30
Ile Pro Gln Asn Tyr Lys Lys Phe Phe Phe Gly His Leu Lys Ala Asp
      35      40      45
Asn Gly Cys Leu Leu Ser Phe Gly His Pro Tyr Cys
      50      55      60

```

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<210> 10760
<211> 68
<212> PRT
<213> Enterobacter cloacae

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<400> 10760
Val Glu His Arg Thr Asp Gly Lys Gly Phe Gln Gly Met Gly Val Val
1      5      10      15
Thr Phe Tyr Leu Ala Asn Leu Val Gly Gln Phe Gly Glu Ala Asn Ser
      20      25      30
Ala Arg Glu Arg Gly Glu Leu His Gln Val Lys Val Leu Ala Asn Asp
      35      40      45
Gly Leu Pro Gly Val Ser Glu Ser Leu Trp Gln Lys Asn Val Ala Lys
      50      55      60
Gln Thr Pro
65

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<210> 10761
<211> 79
<212> PRT
<213> Enterobacter cloacae

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```

<400> 10761
Val Thr Ser Asn Glu Arg Ala Glu Glu Ser Val Pro Glu Cys Gln Pro
1      5      10      15
Asn Glu Gly Glu Glu Lys Leu Tyr Val Val Phe Cys Ile Pro Ser Ala
      20      25      30
Glu Thr Ile His Gln Gly Phe Gly Ala His Tyr Thr Leu Ile Tyr Ser
      35      40      45
Lys Lys Glu Asn Gly Asn Ser Val Ser Lys Thr Ile Cys Ala Asp Ser
      50      55      60
His Lys Phe Val Ile Lys Ala Leu Arg Pro Asn Val Ile Leu
65      70      75

```

<210> 10762
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10762
 Ala Arg Arg Val Met Thr Met Lys Lys Trp Ile Ser Thr Leu Arg Arg
 1 5 10 15
 Phe Phe Ala Pro Arg Pro Val Asn Ala Glu Asn Ser Ala Gln Arg Val
 20 25 30
 Leu Glu Ser Ile Leu Pro Val Ala Ser Leu Tyr Gly Val Asp Val Ala
 35 40 45
 Asn Ile Asp Pro Glu Trp Phe His Asp Lys Thr Ser Arg
 50 55 60

<210> 10763
 <211> 440
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (440)

<400> 10763
 Trp Pro Phe Cys Tyr His Tyr Leu Leu Ser Gln Met Glu Met Ile Met
 1 5 10 15
 Lys Arg Thr Val Leu Thr Pro Ala Leu Ser Ala Thr Ala Leu Leu Leu
 20 25 30
 Thr Met Gln Ala Ala His Ala Gly Pro Gln Ala His Val Val Cys Ser
 35 40 45
 Tyr Ser His Thr Leu Gly Asp Asp Ala Ile Met Met Phe Ser Met Pro
 50 55 60
 Asn Glu Ala Met Leu His Asp Phe Phe Gly Asn Val His Thr Asp Ala
 65 70 75 80
 Tyr Ser Ser Arg Glu Ser Leu Arg Thr Gln Glu Lys Thr Thr Cys Asp
 85 90 95
 Asn Lys Ala Asp Ser Ser Ala Tyr Trp Ala Pro Ser Leu Lys Leu Pro
 100 105 110
 Asp Gly Thr Val Val Lys Pro Ala Tyr Gln Lys Thr Tyr Tyr Gln Ala
 115 120 125
 Ser Asn Val Asp Ala Trp Pro Leu His Pro Phe Gln Ala Gly Leu Ser
 130 135 140
 Leu Leu Ala Gly Asp His His Gly Thr Ala Pro Asn Pro His Ile Thr
 145 150 155 160
 Phe Leu Cys Ala Asn Gly Lys Gly Tyr Thr Arg Thr Gly Glu Val
 165 170 175
 Cys Gly Leu Arg Lys Ala Lys Asp Ala Val Gln Phe Asn Ile Gly Ile
 180 185 190
 Gln Phe Pro Asn Cys Trp Asp Gly Val Asn Leu Lys Pro Ala His Gly
 195 200 205
 Leu Ala Asn Ala Thr Tyr Asp Thr Lys Gly Gln Cys Pro Ser Ala Phe
 210 215 220
 Pro Val Lys Ile Pro Thr Val Asn Met Asn Ile Ala Tyr Val Leu Pro
 225 230 235 240
 Thr Ile Ser Ser Leu Asp Thr Ser Lys Val Gln Leu Ser Leu Asp Pro
 245 250 255
 Ile Met His Gly Ser Glu Arg Glu Glu Arg Trp Gly Ser Leu Tyr Thr
 260 265 270
 Ala His Ala Asp Phe Met Asn Gly Trp Thr Glu Asp Ala Ala Arg Phe
 275 280 285

Met Thr Asp Leu Cys Met Asn Arg Gly Met Asp Cys Gly Thr Thr Val
 290 295 300
 Pro Tyr Gly Tyr Ser Lys Ala Lys Ala Asn Val Trp Leu Ser Ser Met
 305 310 315 320
 Glu Pro Ala Leu Ser Gln Pro Asp Pro Gln Val Leu Leu Val Gln Asp
 325 330 335
 Asn Trp Lys Asn Gly Gly Arg Thr Lys Asn Ser Glu Thr Leu Ser Leu
 340 345 350
 Val Lys Phe His Ile Pro Pro Leu Pro Ala Gly Gln Asp Pro Ala Gln
 355 360 365
 Phe Lys Tyr Arg Val Arg Ile Phe Gly Gly Lys Val Glu Thr Asn Gly
 370 375 380
 Ala Asp Gln Ile Phe Phe Tyr Pro Ala Ser Asn Asp Trp Asp Pro Ala
 385 390 395 400
 Thr Val Ser Trp His Ser Arg Pro Ser Cys Asn Tyr Arg Ser Asp Ala
 405 410 415
 Val Leu Tyr Leu Asn His Ser Arg Glu Tyr Arg Ser Ser Pro Gln Gly
 420 425 430
 Pro Lys Asp Pro Arg Ile Gly Xaa
 435 440

<210> 10764

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 10764

Thr Asp Ser Glu Ser Ala Asp Thr Ala Ser Leu Leu Ser Ile Gly Leu
 1 5 10 15
 Thr His Thr Tyr Leu Thr Asn Ser Gln Leu Ile Gly Pro Pro Ser Lys
 20 25 30
 Ala Gly Phe Phe Tyr Phe Arg Leu Lys Glu Thr Ser Ser Thr Arg Leu
 35 40 45
 Leu Val Lys Ser Ser Arg Gly Pro Asp Leu Ile Asn Gln His Gln Ala
 50 55 60
 Gly Ala Asn Met Lys Lys Thr Thr Met Gln Asp Arg Pro Asp Thr Trp
 65 70 75 80
 Ala Val Met Leu Ala Trp Leu Val Asn His Lys Asn Glu Ala Gly Tyr
 85 90 95
 Ser Val Leu Ala Phe Val Met Ser Ile Leu Ala Thr Ser Arg Gly Ala
 100 105 110
 Lys Ser Lys Trp Lys Asp Arg Ile Ala Gly Ala Thr Met Cys Gly Ile
 115 120 125
 Leu Cys Phe Phe Ala Gln Pro Thr Leu Thr Ala Ile Trp Ala Ile Phe
 130 135 140
 Asn Trp Asn Phe Pro Pro Glu Leu Cys Trp Pro Ile Ser Ala Gly Val
 145 150 155 160
 Gly Tyr Val Gly Val Asp Ser Leu Phe Ala Tyr Ala Arg Arg Arg Leu
 165 170 175
 Gly Leu Asn Glu Pro Gly Asp Lys Ala Asn Ala Asp Pro Gln
 180 185 190

<210> 10765

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 10765

Trp Arg Val Phe Phe Phe Gln Glu Thr Ala Met Ser Ala Leu Tyr Glu
 1 5 10 15
 Lys Ser Gln Leu Thr Lys Ile Leu Ile Ser Ser Leu Pro Ala Thr Lys

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<210> 10766
<211> 147
<212> PRT
<213> Enterobacter cloacae

<400> 10766
Gly Leu Lys Met Thr Ile Trp Leu Gly Ala Leu Lys Asn Leu Leu Ala
1      5      10      15
Pro Leu Thr Gly Lys Thr Leu Ser Cys Leu Lys Ser Gln Asn Asn Gly
20      25      30
Leu Ser Arg Pro Ser Arg Thr Glu Cys Ser Arg Ala Arg Leu Ser Ala
35      40      45
Thr Trp Arg Gln Ile Ser Ala Leu Leu Leu Leu Phe Leu Met Pro Leu
50      55      60
Leu Ser Gly Cys Ala Gln Gln Lys Pro Pro Val Glu Tyr Arg Val
65      70      75      80
Ile Lys His Pro Ala Leu Asn Leu Pro Ala Glu Leu Thr Ser Arg Leu
85      90      95
Asp Val Pro Asp Leu Pro Asp Asn Pro Ser Tyr Gly Asp Ser Val Ser
100     105     110
Met Asn Ala Thr Leu Tyr Gly Ile Val Gly Gln Cys Asn Ile Asp Arg
115     120     125
Glu Ala Ile Arg Lys Ile Glu Lys Gly Arg Asn Asp Glu Asn Gln Pro
130     135     140
Val Gln
145

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<400> 10767															
Ser	Gln	Asp	Ser	Thr	Arg	Thr	Pro	Glu	Gln	Lys	Leu	Ser	Asn	Glu	Val
1				5					10					15	
Lys	Met	Thr	Glu	Ser	Lys	Tyr	Gly	Ser	Gly	Leu	Pro	His	Ala	His	Ala
			20					25					30		
Ala	Cys	Ile	Val	Asp	Gly	Cys	Glu	Leu	Ser	Val	Arg	Ser	Arg	Asn	Ser
		35					40					45			
His	Tyr	Cys	Glu	Lys	His	Tyr	Met	Arg	Val	Arg	Arg	His	Gly	Thr	Thr
	50					55					60				
Glu	Lys	Leu	Ser	Thr	Arg	Lys	Asp	Gly	Lys	Leu	Glu	His	Thr	Gly	Gly
65					70					75					80

Tyr Leu Leu Val Tyr Ala Pro Asp His Pro Leu Ala Cys Gly Ser Pro
 85 90 95
 Arg Val Tyr Glu His Arg Lys Val Tyr Asp Lys His Gly Ala Gly
 100 105 110
 Pro Phe Arg Cys His Trp Cys Ala Lys Thr Val Gly Trp Asp Thr Leu
 115 120 125
 His Ile Asp His Leu Asp Asp Cys Lys Thr Asn Asn Glu Pro Asp Asn
 130 135 140
 Leu Val Pro Ser Cys Pro Val Cys Asn Gln Lys Arg Gly Val Asp Lys
 145 150 155 160
 Met Arg Lys Thr Met Arg Glu Asn Ser Asp Arg Arg Tyr Thr Ala His
 165 170 175
 Gly Lys Thr Met Cys Leu Asn Glu Trp Ala Asp Tyr Leu Gly Ile Ser
 180 185 190
 Arg Asn Ser Ile Glu Tyr Arg Leu Lys Ala Gly Trp Asp Ile Ser Met
 195 200 205
 Val Phe Ser Pro Arg Ile Gly Asn Ser Gly Pro Pro Ser Arg Lys Leu
 210 215 220
 Ala Lys Ile Val His Glu Ser Val Lys
 225 230

<210> 10768

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 10768

Ala Gly Asp Arg Lys Met Ile Glu Thr Ser Leu Asp Phe Ser Gly Leu
 1 5 10 15
 Asn Asp Ile Ala Lys Asp Leu Glu Ala Leu Ser Arg Ala Glu Asn Asn
 20 25 30
 Lys Val Leu Arg Asp Ala Thr Arg Ala Gly Ala Glu Val Leu Lys Asp
 35 40 45
 Glu Val Ile Ala Arg Ala Pro Val Arg Thr Gly Lys Leu Lys Lys Asn
 50 55 60
 Val Val Val Val Thr Gln Lys Ser Arg Arg Arg Gly Glu Ile Ser Ser
 65 70 75 80
 Gly Val His Ile Arg Gly Val Asn Leu Arg Thr Gly Asn Ser Asp Asn
 85 90 95
 Thr Met Lys Ala Asn Asn Pro Arg Asn Ala Phe Tyr Trp Arg Phe Val
 100 105 110
 Glu Leu Gly Thr Ala Asn Met Pro Ala His Pro Phe Val Arg Pro Ala
 115 120 125
 Tyr Asp Thr Arg Glu Glu Glu Ala Ala Ser Val Ala Ile Ala Arg Met
 130 135 140
 Asn Gln Ala Ile Asp Glu Val Leu Ser Lys
 145 150 155

<210> 10769

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 10769

Lys His Arg Val Trp Leu Leu Arg Gly Arg Met Lys Asn Ile Lys Asn
 1 5 10 15
 Leu Ala Leu Ala Lys Met Ser Gly Phe Arg His Lys Thr Val Ala Val
 20 25 30
 Pro Glu Trp Glu Gly Val Lys Val Val Leu Arg Glu Pro Ser Gly Glu
 35 40 45
 Ala Trp Leu Arg Trp Gln Glu Val Val Lys Ala Gly Ala Asp Asp Glu

50		55		60
Asn Val Ser Val Ser	Glu Lys Ala His Arg	Asn Leu Cys Ala Asp Val		
65	70	75	80	
Cys Ser Ser Leu Thr	Phe Asp His Gly Gly Trp	Ile Asp Pro Arg Ser		
	85	90	95	

<210> 10770
 <211> 77
 <212> PRT
 <213> Enterobacter cloacae

<400> 10770	
Val Glu Lys Gly Asn Cys Arg Glu Val Phe Gln Arg Gly Ile Ala Leu	
1	5 10 15
Phe His Gln Cys Pro Glu Asn Pro Phe Thr Phe Gln Leu Asn Glu Phe	
	20 25 30
Ile Tyr Asp Cys Val Leu Leu Ile Arg Asn Asn Asn Asp Lys Gly His	
	35 40 45
Leu Arg Val Ala Leu Phe Asn Gly Val Asn Gln Arg Glu Gly Ser Gly	
	50 55 60
Thr Asn Gly Ala Thr Glu Ile Ile Ser Val Val Thr	
65	70 75

<210> 10771
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 10771	
Thr Phe Asn Gly Gly Ile Phe Arg Ala Val Thr Asp Asp Asn Arg Met	
1	5 10 15
Ala Lys Val Glu Lys Val Met Gly Glu Ala Asp Ala Thr Ala Cys Ala	
	20 25 30
Ser Asp Gln Tyr Trp Ala Leu Leu Arg Val Ser His Arg Asn Leu Leu	
	35 40 45
Phe Ser Ser Thr Met Gly Gln Ala Thr Leu Ser His	
	50 55 60

<210> 10772
 <211> 63
 <212> PRT
 <213> Enterobacter cloacae

<400> 10772	
Leu Leu Gln Val Asn Leu Met Leu Met Ser Cys Ser Ile Met Ala Leu	
1	5 10 15
Tyr His Val Phe Thr Ala Ser Leu Ala Arg Phe Ile Gly Pro Glu Gly	
	20 25 30
Glu Phe Lys Val Asn Ile Ser Val Ser Asn Pro Asp Arg Leu Phe Phe	
	35 40 45
Thr Asp Lys Val Ile Phe Thr Thr Arg Ser Thr Val Asn Glu Arg	
	50 55 60

<210> 10773
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 10773	
Gly Ile His Ile His Ser Ile Gln Lys Val Leu Ile Lys Gly Asn Asp	
1	5 10 15

Thr Arg Arg Glu Lys Ile Gln Thr Glu Ala Gly Glu Arg Arg Val Thr
 20 25 30
 Gly Asn Pro Val Thr Gln Asn Asp Tyr Ser Arg Ser Pro Ile Ile Phe
 35 40 45
 Ser Ser Phe Ser Trp Ser Ile Ala Asn Leu Arg Ile Pro Ser Ala Ser
 50 55 60
 Leu Ser Thr Ala Ile Gly Ser Trp Leu Cys Cys His Arg Asn Ser Asp
 65 70 75 80
 Ser Val Met Arg Ser Gly Arg Ala Phe Thr Ser Pro Val
 85 90

<210> 10774

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10774

Pro Val Leu Tyr Leu Tyr Val Met Gln Ser Pro Phe Thr Asp Arg Arg
 1 5 10 15
 Asp His Glu Ser Gly Gly Leu Met Asn Glu Phe Lys Arg Cys Met Asn
 20 25 30
 Val Phe Thr His Ser Pro Phe Lys Val Arg Leu Met Leu Leu Asn Met
 35 40 45
 Leu Cys Asp Met Phe Asn Ala Lys Pro Gln Gln Asp Asp Asn Ser Ser
 50 55 60
 His
 65

<210> 10775

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 10775

Asn Leu Gln Asp Ala Leu Met Lys Arg Ile Phe Leu Ser Val Ala Met
 1 5 10 15
 Leu Leu Val Gly Cys Ser Ser Ala Ala Ser Gln Glu Gln Ser Ala Lys
 20 25 30
 Asp Thr Thr Val Ser Phe Tyr Lys Ser Tyr Leu Cys Ala Phe Gly Ser
 35 40 45
 Asn Glu Ala Arg Pro Tyr Pro Ala Asp Glu Leu Arg Lys Tyr Val Ser
 50 55 60
 Ala Asp Thr Ile Ala Arg Ile Gly Ala Ile Gln Glu Ile Pro Glu Gln
 65 70 75 80
 Glu Leu Ile Glu Ser Asp Tyr Phe Thr Tyr Thr Gln Asp Tyr Ala Arg
 85 90 95
 Glu Trp Ile Pro Ala Leu Arg Val Glu Asn Ala Arg Pro Phe Leu Asn
 100 105 110
 Gly Glu Val Val Gln Val Met Glu Gly Ala Gly Gly Gly Arg Ser Ile
 115 120 125
 His Leu Glu Val Phe Leu Arg Arg Glu Asp Asp Ala Trp Lys Ile Tyr
 130 135 140
 Arg Val Arg Asp Leu Thr Asn Asn His Glu His Pro Ile Phe Asn Ala
 145 150 155 160
 Gly Ala Ile Ala Gln Ala Lys Ile Ala Ala Glu Ser Gly Leu
 165 170 175

<210> 10776

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 10776

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Ala Leu Phe Asn Gln His Gln Val Asn Asp Trp His Asn Asn Ser Val
1          5          10          15
Leu Thr Tyr Leu Arg Glu Leu Arg Met Ser Trp Asn Lys Asp Val Ala
20          25          30
Val Ser Tyr Leu Arg Ser His Ala Leu Gly His Ser His Ser Glu Cys
35          40          45
Ala Lys Phe Thr Arg Leu Ala Ile Leu Ala Gly Gly Val Lys Val Pro
50          55          60
Asn Thr Asp Tyr Ala Lys Asp Tyr Gly Ala Glu Leu Leu Arg Ala Gly
65          70          75          80
Phe Arg Glu Leu Pro Pro Gly Ser Thr Leu Ile Ala Gly Asp Val Ala
85          90          95
Val Ile Gln Pro Tyr Pro Gly Gly Asn Gly Ile Gly His Met Thr Met
100         105         110
Tyr Asp Gly Thr Gln Trp Ile Ser Asp Phe Val Gln Lys Ser Met Tyr
115         120         125
Pro Gly Pro Gly Tyr Arg Lys Met Gln Pro Ser Phe Lys Ile Tyr Arg
130         135         140
Met His
145

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<210> 10777

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10777

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Lys Arg Gly Arg Ala Thr Gly Trp Tyr Tyr Ala Thr His Pro Ala Leu
1          5          10          15
Lys Thr Gly Trp Met Arg Phe Ala Pro Val Cys Ser Val Glu Ala Asp
20          25          30
Val Val Phe His His Pro Phe Glu Glu Ala His Thr Gly Thr His Glu
35          40          45
Ala Val Phe Lys Pro Lys Thr Cys Met Phe Ile His Thr Asn Thr
50          55          60

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<210> 10778

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 10778

```

Gly Leu Lys Phe Ser Gly Asp Pro Ser Glu Gln Tyr Thr Ser Val Phe
1          5          10          15
Ala Ala Thr Val Glu Leu Thr Val Ser Ala Ala Ser Ala Ser Val Ile
20          25          30
Ile Val Asn Val Leu Phe Ile Ile Tyr Ser Cys Leu Phe Asn Ser Thr
35          40          45
Ala Asn Tyr Phe Phe Cys His Phe Ile Asn Asn Ile Lys Val Met Ala
50          55          60
Gln Thr His Glu Lys
65          70

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<210> 10779

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 10779

Gly Cys Ser His Tyr Val Cys Leu Cys Leu Arg Leu Phe Tyr Gly Ala
 1 5 10 15
 Lys Leu Asp Leu His Lys Met Cys Gln Lys Ser Ser Ile Phe Thr Arg
 20 25 30
 Gln Asn Ser Asn Ile Ala Ser Lys Glu Gly Phe Met Glu Trp Lys Val
 35 40 45
 Val Glu Thr Ile Ala Ser Pro Glu Ser Gly Thr Ile Phe Cys Lys Val
 50 55 60
 Glu Thr Gln Tyr Gly Leu Asn Tyr Ile Leu Trp Leu Lys Gly Asp Tyr
 65 70 75 80
 Tyr Val Arg Thr Gly Glu Ile Ile Thr Thr Ser Asn Gln Gly Ile Leu
 85 90 95
 Ile Asn Asp Arg Arg Arg Val Trp Ile Ala Gln Ala Met Pro Phe
 100 105 110
 Thr Ser Ile Gly Trp Met Gly Phe Lys Gln Lys Asn Ala Cys Pro Gly
 115 120 125
 Asn Arg Gln Glu Met Asp Arg Pro Cys Thr Ala Glu Thr Pro Cys Gln
 130 135 140
 Phe Lys Leu Cys Pro Phe Gly Leu Lys Arg Tyr Ile Pro Glu Ser Tyr
 145 150 155 160
 Ser Thr Thr Lys Ile Asn Asn His Pro Asp Gly Arg Leu
 165 170

<210> 10780

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10780

Ile Val Glu Gln Ile Thr Gln Val Phe Ser Thr Thr Leu Leu Thr Leu
 1 5 10 15
 Leu Pro Val Phe Leu Ala His Phe Leu Val Gly Phe Phe Phe Cys Leu
 20 25 30
 Asn Pro Pro Lys Ser Gly Val Phe Ser Val Glu Val Lys Arg Tyr Ser
 35 40 45
 Leu Leu Leu Leu Asn Asn Gln Lys Ala Leu Ile Thr
 50 55 60

<210> 10781

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 10781

Arg Gly Gly Phe Leu Met Ala Asn Ser Phe Lys Gln Met Thr Arg Asp
 1 5 10 15
 Gly Thr Ile Lys Arg Thr Asp Thr Gly Met Phe Ile Ser Leu Asp Gln
 20 25 30
 Ile His Val Arg Glu Gly Phe Asn Lys Arg Glu Asp Asp Glu Arg Thr
 35 40 45
 Arg Gln Ala Asp Asp Asp Leu Phe Asn Tyr Leu Met Asn Gly Gly Ser
 50 55 60
 Val Pro Pro Leu Glu Val Ile Ala Arg Asp Glu Gly Gly Val Trp Val
 65 70 75 80
 Val Glu Gly His Arg Arg Arg Arg Cys Tyr Ala Arg Cys Ala Glu Ala
 85 90 95
 Gly Lys Pro Val Asp Arg Ile His Ile Met Pro Phe Asn Gly Asn Asp
 100 105 110
 Val Gln Arg Leu Ala Arg Ile Met Thr Ser Asn Asn Gln Leu Pro Leu
 115 120 125
 Ser Asp Met Glu Gln Ala Ala Val Ile Gln Glu Leu His Asn Ala Phe

```

      130              135              140
Asn Gln Thr Thr Ser Glu Ile Ala Lys Leu Val Asn Lys Ser Val Pro
145              150              155              160
Thr Val Glu Lys Leu Leu Leu Ser Thr Ala Asn His Asp Val Gln
      165              170              175
Lys Glu Val Lys Ser Gly Thr Val Ser Val Asp Val Ala Val Asp Arg
      180              185              190
Val Lys Glu Phe Gly Glu Lys Ala Gly Glu Val Leu Gln Lys Asp Lys
      195              200              205
Ala Ser Ala Ala Ala Lys Gly Lys Lys Lys Val Thr Arg Ser Val Ile
      210              215              220
Ala Pro Glu Ile Ser Val Lys Lys Ala Arg Arg Leu Val Glu Leu Ile
225              230              235              240
Ser Leu Ala Gly Ile Ser Asp Thr Gly Val Ile Tyr Leu Glu Gly Leu
      245              250              255
Val His Ala Glu Val Val Glu Ile Ile Asp Glu His Lys Ala Ile Ala
      260              265              270
Val Gln Arg His Gly Glu Ala Ser
      275              280

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<210> 10782
<211> 94
<212> PRT
<213> Enterobacter cloacae

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<400> 10782
Ser Ala Arg Ser Pro Leu Val Asn Leu Pro Leu Glu Glu Ala Ser Asp
1      5      10      15
Ile Ile Arg Glu Ser Leu Arg Thr Glu Val Arg His Glu Leu Glu Tyr
      20      25      30
Glu Tyr Asp Asp Arg Ile Ser Ser Ala Glu Glu Glu Ala Ser Asp Trp
      35      40      45
Glu Ser Arg Ala Asp Ser Tyr Glu Cys Asp Ala Ile Ser Phe Ala Arg
      50      55      60
Ala Ile Glu Lys Ala Leu Leu Ala Pro Thr Leu Asp Glu Ala Lys Ile
65      70      75      80
Ile Leu Glu Arg Val Arg Ser Asp Asn Arg Glu Tyr Phe
      85      90

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<210> 10783
<211> 154
<212> PRT
<213> Enterobacter cloacae

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<400> 10783
Tyr Leu Met Asn Ile Tyr Glu Phe Gly Ser Ile Gln Val Pro Gly Phe
1      5      10      15
Val Gln Pro Lys Phe Ser Ala Val Gln Ser Ala His Asn Thr Glu Lys
      20      25      30
Leu Ser Met Thr Asn Thr Gln Asn Val Thr Glu Leu Gln Pro Arg Met
      35      40      45
Thr Arg Glu Gln Leu Ile Asp Ala Ala Arg Lys Ala Ala Pro Leu Leu
      50      55      60
Pro Pro Ala Tyr Arg Gly Ile Met Thr Glu Leu Ala Asn Arg Leu Asp
65      70      75      80
Tyr Thr Ser Val Ala Leu Cys Glu Ala Met Ala Gln Arg Lys Glu Leu
      85      90      95
Ala Val Gln Asn Ala Thr Leu Arg Glu Asp Val Ala Ser Trp Ala Lys
      100      105      110
Glu Cys Asp Arg Ile Val Glu Arg His Thr Lys Ser Arg Thr Asn Met
      115      120      125

```

His Leu Leu Glu Ala Gln Arg Glu Leu Arg Glu Leu Ser Pro Ile Val
 130 135 140
 Ile Ser Gln Asn Asn Glu Val Ala Phe
 145 150

<210> 10784

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 10784

Pro Val Ser Gly Ser Thr Phe Ala Arg Arg Ser Met Phe Gln Leu Lys
 1 5 10 15
 Pro Gly Ser Met Ala Met Ile Val Gly Ala Arg Thr Ala Ala Gly Arg
 20 25 30
 Arg Asn Ile Gly Lys Ser Val Glu Leu Phe Gly Leu Cys Gln Pro Gly
 35 40 45
 Gln Arg Phe Val Asn Pro Val Asn Gly Val Met Thr Gln Leu Pro Asp
 50 55 60
 Thr Ser Ala Arg Ala Leu Trp Leu Val Thr Gly Asp Val Tyr Ala Phe
 65 70 75 80
 Asp Asn Gln His Gly Phe Ala Phe Val Arg Pro Glu His Leu Met Pro
 85 90 95
 Leu Thr Pro Asp Glu Met Pro His Asn Val Asp Glu Leu Ala Ile Gly
 100 105 110

<210> 10785

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10785

Val Phe Ser Pro Tyr Ala Ile Pro Gly His Gly Tyr Glu Leu Ala Asp
 1 5 10 15
 Ser Glu His His Arg Arg Asp Asn Tyr Asn Phe Asp Trp Arg His Tyr
 20 25 30
 Ser Ser Ser Ser Arg Pro Arg Tyr Glu Arg Glu Leu Ile Ala Phe Gly
 35 40 45
 Leu Lys Ser Ser Pro Glu Ile Asn Ser Phe Asn Leu Ser Lys Ser Ala
 50 55 60
 Cys Asp Phe Met Arg Lys Val Ser
 65 70

<210> 10786

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10786

Ile Leu Leu Lys Ala Asp Glu Gly Glu Ala Lys Lys Ser Pro Asp Val
 1 5 10 15
 Glu Ile Gly Ala Lys His Leu Asp Tyr Gly Met Met Phe Ser Gly Gln
 20 25 30
 Cys Glu Asn Arg Tyr His Tyr Lys Arg Glu Ser Cys Arg Phe Asn Gly
 35 40 45
 Glu Ile Met Glu Lys Thr Ala Met Thr Arg Tyr Ser Asp Val Phe Thr
 50 55 60
 Pro
 65

<210> 10787
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 10787
 Asn Asn Tyr Trp His Arg His Ala Asp Asp Gln Pro Ala Glu Phe Gly
 1 5 10 15
 Tyr Phe Val Gly Leu Leu His Asp Ser Gly Val Gln Val Arg Gly Phe
 20 25 30
 Thr Phe Pro Pro Gly Asn Val Gly Phe Lys Ala Ala Gln Ala Pro Leu
 35 40 45
 Phe Lys Phe Ser His His Met Pro Tyr Pro Val Met Asp Met Ser Trp
 50 55 60
 Gln Ile Ala Asn Ile Thr Ala Val Ile Thr Thr Thr Leu Thr Gly Gly
 65 70 75 80
 Ile Ile Arg Pro Pro Leu Asp Gln Gly Met Lys Glu Ser
 85 90

<210> 10788
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10788
 Trp Val Val Val Pro Val Thr Ser Ser Asp Ile Thr Ile Ser Pro Val
 1 5 10 15
 Ile Cys Gln Tyr Val Ala Cys Tyr Ile Ser Thr Gly Arg Arg Gly Leu
 20 25 30
 Lys Glu Asn Ser Gln Arg Glu Arg Trp Leu Leu Gly His Ala Leu Leu
 35 40 45
 Val Asp Asp Cys Phe Trp Ser Asn Ser Leu Lys Phe Asn
 50 55 60

<210> 10789
 <211> 70
 <212> PRT
 <213> Enterobacter cloacae

<400> 10789
 Pro Ser Ser Ser Arg Leu Arg Arg Arg Ser Ala Ala Ile Ser Trp Ser
 1 5 10 15
 Ser Ser Thr Ser Arg Ile Cys Phe Met Gly Lys Pro Ser Ile Ile Cys
 20 25 30
 Tyr Val Val Ser Leu Pro Asp Phe Glu Arg Gly Lys Ser Ser His Phe
 35 40 45
 Val Glu His Cys Val Gly Phe Met Pro Gly Gly Gly Phe Ala Leu Pro
 50 55 60
 Gly Leu Arg Phe Gly
 65 70

<210> 10790
 <211> 133
 <212> PRT
 <213> Enterobacter cloacae

<400> 10790
 Ala Cys Ile Met Ser Ser Lys Asn Gln Ser Gln Tyr Phe Ser Ile Ala
 1 5 10 15
 Val Tyr Ile Pro Glu Glu Leu Lys Gln Thr Phe Val Glu Glu Cys Ser

```

      20      25      30
Ile Val Gly Ile Asp Ala Lys Arg Val Gln Cys Phe Ser Ser Asn Pro
      35      40      45
Gly Ile Arg Glu Tyr Leu Ser Ile Leu Val Glu Arg Gly Gln Lys Phe
      50      55      60
Ala Pro Tyr Leu Leu Lys Val Leu Asn Leu Leu Gln Ser Lys Ser Lys
      65      70      75      80
Ile Arg Ile Glu Val Ala Ala Asp Arg Lys Ile Ile Asp Leu Gln Gly
      85      90      95
Val Ser Val Asp Asp Ala Leu Lys Leu Ile Gln Ala Ala Asp Ala Ile
      100      105      110
Arg Val Ile Asp Gln Gln Glu Pro Glu Asp Met Asn Ser Asp Ser Ala
      115      120      125
Lys His Thr Ile
      130

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<210> 10791

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 10791

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Asn Asp Asn Lys Asn Arg Gly Asn Val Met Asn Asp Lys Lys Ile Gln
1      5      10      15
Ile Val Glu Leu Leu Ile Ser His Ser Gln Met Leu Leu Arg Ser Arg
      20      25      30
Asp Tyr Asp Glu Lys Leu Asn Tyr Trp Gly Lys Gly Asn Val Ser Gln
      35      40      45
Gly Ala Val Leu His Lys Asp Tyr Val Ile Phe Asp Pro Leu Pro Glu
      50      55      60
Asp Ala Phe Gly Ala Asn Val Asn Ile Lys Ile Asp Asn Ser Phe Ile
      65      70      75      80
Leu Asp Glu Thr Ala Gln Arg Cys Ile Val Val Pro Phe Phe Ile Thr
      85      90      95
Asn Lys Asn Lys Leu Gln Val Ala
      100      105

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<210> 10792

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 10792

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Thr Leu Gln Lys Glu Ser Ser Met Asn Gln Phe Thr Glu Asp Leu His
1      5      10      15
Asn Val Val Ala Gln Ile Leu Ala Gly Ala Glu Ile Ser Asp Ser Glu
      20      25      30
Ile Phe Lys Glu Leu Thr Ile Glu Pro Asp Phe Tyr Lys Val Gln Asp
      35      40      45
Gln Tyr Tyr Gly Gly Asn Gly Ile Tyr Phe Asn Ser Glu Ser Glu Thr
      50      55      60
Arg Phe Ser Leu Arg Ser Lys Ser Lys Gly Val Leu Tyr Leu Ala Thr
      65      70      75      80
Thr Ala Phe Thr Gly Leu Lys Glu Phe Tyr Gln Asp Ala Pro Leu Val
      85      90      95
Glu Thr Glu Asp Leu Glu Lys Asn Cys Met Ala Val Ile Gln Ala Ala
      100      105      110
Arg Thr Ile Lys Ile Ile Asp Leu Ala Ala Leu Ala Pro His Leu Lys
      115      120      125
Thr Pro Leu Gly Tyr Leu Met Gly Ser Lys Ala Val Tyr Glu Asp Thr
      130      135      140

```

Gln Trp Leu Ala Glu Val Leu Ser His Tyr Ala Asp Gly Ile Glu Tyr
 145 150 155 160
 Leu Ser Arg His Thr Gly Lys Thr Cys Ile Ala Leu Trp Ser Asp Thr
 165 170 175
 Val Asp Gly Asn Gly Met Leu Lys Asn Ile Ser Val Thr Pro Leu Ile
 180 185 190
 Gln Phe Ser Leu Asn Gly Gln Ser Thr Gln Ala Ile Leu Lys Ser Lys
 195 200 205
 Leu Gly Ile Leu Thr Val Phe Thr Thr Gly Gly Arg Ala Asn Arg Ala
 210 215 220
 Lys Gln Gly Gly Glu
 225

<210> 10793

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10793

Thr Pro Ile Glu Ala Ile Lys Gly Thr Glu Ile Tyr Pro Gly Gly Leu
 1 5 10 15
 Tyr Ala Leu Val Phe Arg Ala Gln Gly Phe Tyr Met Asp Asp Phe Pro
 20 25 30
 Ser Leu Ser Gly Arg Asn Ser Ala Pro Gly Phe Met Pro Val Asn Arg
 35 40 45
 Asp Leu Val Ser Arg Cys Ser Tyr Phe Pro Ser Phe Glu
 50 55 60

<210> 10794

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 10794

Gly Pro Lys Met Lys Arg Thr Leu Cys Thr Val Leu Thr Ala Leu Thr
 1 5 10 15
 Leu Ala Thr Ala Leu Pro Ala Ile Gly Ala Thr Thr Glu Ala Gly Ser
 20 25 30
 Thr Ser Ala Ala Thr Thr Gly Thr Thr Gly Ala Thr Val Gly Thr
 35 40 45
 Thr Ala Gly Thr Thr Gly Gly Leu Ala Ala Gly Ala Ile Gly Thr Thr
 50 55 60
 Ala Val Val Thr Thr Ala Ala Ile Ala Gly Val Ala Thr Leu Ala Val
 65 70 75 80
 Val Ala Ala Ser Asp Ser Gly Asp Asp Ser Ser Asn Gly Thr Ser Thr
 85 90 95
 Thr Thr Val Thr Arg
 100

<210> 10795

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10795

Cys Ser Ala Lys Lys Ile Ala Pro His Phe Ser Leu Leu Pro Gly Gln
 1 5 10 15
 Thr Glu Thr Ser Ile Leu Ala Ser Ile Ser Arg His Asp Gly Glu Arg
 20 25 30
 Met Gln Asn Tyr Tyr Gly Ser Leu Thr Phe Ile Ser Arg Lys Asn Phe
 35 40 45

Pro Pro Gln Gln Cys Ala Gly Lys Arg Pro Leu Arg Ala
 50 55 60

<210> 10796

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 10796

Trp Asn Leu Cys Lys Ala Cys Glu Gly Ser Ala Asp Phe Ala Ile Pro
 1 5 10 15
 Arg Ala Ile Lys Thr Val Gly Arg Gly His Gly Cys Arg Leu Tyr Arg
 20 25 30
 Ser Leu Arg Arg Cys Leu Ala Ile Ala Asp Leu Gly Gly Arg His Asn
 35 40 45
 Val Ala Pro Leu Tyr Ile Met Ser Tyr His Ser Phe Leu Phe Lys Lys
 50 55 60
 Ala Ala Ile Ala Glu Trp Phe Asp Phe Ala Ile Val Lys Ser Ala Phe
 65 70 75 80
 Pro His Ala Ser
 85

<210> 10797

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 10797

Lys Ala Lys Phe Lys Ala Asp Lys Ala Ser Asn Ser Asn Lys Glu Glu
 1 5 10 15
 Arg Glu Thr Phe Phe Arg Phe Phe Tyr Ser Pro Ala Leu Lys Ala Ala
 20 25 30
 Ser Asp Phe Leu Asn Thr Val Leu His Lys Glu Asn Arg Met Thr Val
 35 40 45
 Phe Leu Ile Leu Thr Ala Ile Ala Tyr Gly Ile Phe Lys Ala Gly Cys
 50 55 60
 Phe Ile Leu Leu Val Val Lys Gly Tyr Gln Gly Trp Thr Leu Phe Trp
 65 70 75 80
 Lys Asn Tyr Asp Arg Leu Pro His Ile Ile Arg Ser Arg Cys Arg Tyr
 85 90 95
 Gln Arg Arg Phe Ile Phe Arg Arg Ile Trp Lys Arg Ile Phe Ser His
 100 105 110

<210> 10798

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 10798

Leu Phe Leu Asp Ile Ile Asn Leu Val Met Asp Arg Gln Ile Gln Arg
 1 5 10 15
 Glu His Ile Glu Gln Gln Ile Asp Met Ser Leu Gly Asp Gly Ile Lys
 20 25 30
 Ala Ala Phe Arg Arg Ser Ile Met Thr Thr Ser Asn Ala His Phe Cys
 35 40 45
 Arg Lys Thr Gly Ser Leu Met Phe Gln His Arg Ile Lys Ile Tyr Thr
 50 55 60
 Thr Ser Phe His Leu Thr Lys Tyr Ile His Gly Arg Arg Phe Glu Thr
 65 70 75 80

Arg Ile Ile Leu Val Tyr Lys Leu Leu Ile Gly Tyr Ala Gly Ile Phe
 85 90 95
 Lys Ser Leu Ile Pro Asp Gly Val Gln Tyr Leu
 100 105

<210> 10799

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10799

Val Ser Phe Arg Val Phe Asn His Asn Pro Ser Ser Thr Ala Arg Lys
 1 5 10 15
 Leu Ala Arg Pro Met Val Ile Ala Gly Lys Ile Met Trp Lys Glu Thr
 20 25 30
 Val Asn Ala Asn Cys Thr Leu Ala Lys Trp Lys Ala Ser Asn Pro Asn
 35 40 45
 Ile Val His Leu Asn Pro Asp Asn Thr Leu Ile Ile Asn Tyr Phe Leu
 50 55 60
 Ser Asn Gln Ser Leu Asp Glu Lys Phe Arg Leu Leu Lys Thr Ile Ile
 65 70 75 80
 Phe Leu Tyr Glu Ile Lys Thr His Leu Gln Val His Cys
 85 90

<210> 10800

<211> 190

<212> PRT

<213> Enterobacter cloacae

<400> 10800

Ala Met Thr Gln Ala Arg Arg Pro Ser Pro Leu Gln Arg Arg Val Leu
 1 5 10 15
 Ile Val Leu Ala Ala Leu Asp Ser Lys Arg Pro Gly Pro Val Ala Thr
 20 25 30
 Arg Asp Ile Glu Arg Val Leu Glu Gln Gly Gly Asp Ala Pro Val Tyr
 35 40 45
 Gly Pro Asn Leu Arg Ala Ser Cys Arg Arg Met Glu Ala Ala Gly Trp
 50 55 60
 Leu Arg Thr Leu Arg Ala Pro Asn Gln Gln Leu Ala Val Glu Leu Thr
 65 70 75 80
 Gly Ala Gly Arg Asp Val Ala Glu Pro Leu Tyr Gln Ala Ala Arg Asp
 85 90 95
 Asp Glu Ile Ser Arg Gln Arg Gln Leu Lys Val His Ser Leu Pro Leu
 100 105 110
 Arg Glu Ser Thr Thr Gly Glu Ala Val Glu Val Phe Leu Gly Asp Ser
 115 120 125
 Leu His Arg Ile Cys Gln Ala Ala Tyr Val Ile Arg Leu Asp Gly Ser
 130 135 140
 Thr Cys Leu Gln Val Thr Asn Ala Gly Gly Ile Arg Gln Ile Met Glu
 145 150 155 160
 Gly Asp Pro Leu Gln Val Ala Asp Leu Tyr Gln Thr Cys Tyr Asp Ala
 165 170 175
 Gly Leu Pro Val His Ile Gln Ile Asn Glu Ser Gln Asp
 180 185 190

<210> 10801

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 10801

Cys Ala Cys Lys Gly Asp Phe Ile Pro Asp Leu Gly Leu Leu Thr Asn
 1 5 10 15
 Asn His Lys Leu Phe Arg Arg Gln Thr Val Asn Lys Asn Pro Ile Leu
 20 25 30
 Tyr Thr Gly Asp Gly Gly Val Leu Lys Thr Phe Pro His Gly Arg Gly
 35 40 45
 Gln Met Lys Gly Asp Ala Cys Val Ile Val Leu Arg Thr Arg Asp Gly
 50 55 60
 Glu Ile Phe His Gln Tyr Phe Ala Ile Ala Val Leu Val Gly Pro Leu
 65 70 75 80
 Leu Pro Leu Tyr Phe Gly Gln Arg Val Met Ser Gly Gly Leu Arg Asp
 85 90 95
 Val Ser Tyr Leu Phe
 100

<210> 10802

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10802

Leu Asn Arg Thr Leu Ser Asp Gly Ala Cys Arg Met Asp Glu Lys Glu
 1 5 10 15
 Val Asn Phe Ser Leu Ser Tyr Glu Gln Leu Thr Arg Ile Ala Glu Glu
 20 25 30
 Arg Ile Arg Glu Cys Glu Leu Asp Ser Gln Gly Ala Lys Tyr Ile Ser
 35 40 45
 Glu Ser Ser Met Ala Ser Thr Leu Leu Gln Phe Trp Tyr Glu Leu Ala
 50 55 60
 Ile Thr Gly Ala Pro Met Lys Asn Tyr Glu Gln Thr Lys Ala Leu Ile
 65 70 75 80
 Asp Val Asp His Gln Arg Leu Arg Lys Leu Ile Trp Pro Glu Thr Asp
 85 90 95
 Lys Gln

<210> 10803

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 10803

Val Pro Met Lys Lys Thr Lys Tyr Arg Phe Glu Ser Asp Asp Asp Pro
 1 5 10 15
 Phe Val Ser Lys Asp Val Leu Thr Leu Ile Asp Asn Gly Leu Val Phe
 20 25 30
 Leu Asp Lys Ala Arg Glu Glu Leu Gln Asp Ser Met Pro Lys Phe Ser
 35 40 45
 Ile Val Ser Phe Trp Thr Ala Val Glu Ile Leu Leu Lys Val Pro Leu
 50 55 60
 Leu His Glu His Trp Ser Leu Val Cys Ser Gly Arg Lys Ile Glu Arg
 65 70 75 80
 Ala Arg Tyr Leu Ala Gly Asp Phe Gln Ser Val Thr Tyr Asp Glu Thr
 85 90 95
 Cys Gln Arg Leu Ala Asp Val Leu Glu His Pro Leu Pro Lys Glu Thr
 100 105 110
 Ile Asp Val Phe Lys Lys Val Lys Asp His Arg Asn Arg Val Val His
 115 120 125
 Phe Tyr His Ser Asp Trp His Cys Cys Lys
 130 135

<210> 10804
 <211> 194
 <212> PRT
 <213> Enterobacter cloacae

<400> 10804

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Asn Val Arg Pro Leu Asn Lys Thr Lys Gly Cys Leu Ile Ala Asn Phe
1          5          10          15
Ala Thr Val Pro Asp Ile Asp Pro Lys Gln Thr Pro Asp Asp Ala Ala
20          25          30
Tyr Ala Trp Ser Asn Ile Val Asp Asp Ala Arg Ser Asn Gln Ala Val
35          40          45
Pro Ala Leu Ser Leu Tyr Ser Gly Asn His Trp Ser Thr Ala Lys Glu
50          55          60
Ile Leu Asn Ser Thr Arg Asn Leu Glu Leu Trp Ile Ile Ser Ala Gly
65          70          75          80
Met Gly Phe Leu Asn Cys Arg Asp Arg Val Pro Ser Tyr Glu Ala Thr
85          90          95
Phe His Gln Val Pro Phe Arg His Asp Leu Trp Trp Lys Ala Ile Thr
100         105         110
Lys Ser Leu Gly Lys His Asn Arg Cys Ala Thr Ile Ser Gln Leu Met
115         120         125
Gln Ser Ser Pro Asn Asp Glu Tyr Leu Ile Ala Ala Ser Pro Val Tyr
130         135         140
Ile Ala Ala Val Gln Asn Asp Ile Leu Lys Gly Ile Glu Ser Leu Thr
145         150         155         160
His Pro Leu Thr Gln Leu Thr Ile Val Thr Ser Gly Ala Tyr Ala Gly
165         170         175
Pro Leu Glu Glu Tyr Leu Ile Lys Ser Ser Ser Val Met Thr Pro Thr
180         185         190
Tyr

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<210> 10805
 <211> 71
 <212> PRT
 <213> Enterobacter cloacae

<400> 10805

```

Val Asn Ala Ala Met Leu Ser Leu Thr Asn Lys Glu Asp Asn His Met
1          5          10          15
Asn Ile Lys Thr Leu Lys Asn Asp Thr Val Glu Thr Val Ser Phe Leu
20          25          30
Val Lys Ala Leu Phe Phe Val Val Arg Lys Ile Tyr Leu Lys Pro Ala
35          40          45
Val Ala Val Cys Pro Leu Pro Gln Thr Leu Ala Glu Cys Arg Ile Tyr
50          55          60
Ala Ala Arg Ser Ile Cys
65          70

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<210> 10806
 <211> 356
 <212> PRT
 <213> Enterobacter cloacae

<400> 10806

```

Tyr Ser Lys Pro Thr Gln Arg Glu Arg Gly Met Ser Gln Gln Leu Arg
1          5          10          15
Lys Arg Ser Asp Ile Glu Lys Lys Val Ala Ala Gly Glu Ala Val Lys
20          25          30
Glu Gln Pro Arg Gln Leu Ile Arg Asp Thr Ile Thr Gly Lys Ile Ile

```

```

      35      40      45
Ser Asn Glu Arg Val Pro Glu Thr Leu Pro Ala Cys Leu Ile Ala Met
  50      55      60
Gln Ser Asn Thr Leu Val Tyr Asn Asp Val Asp Val Glu Ala Phe Gln
  65      70      75      80
Arg Glu Val Arg Gln Gln Val Ser Gln Ile Leu Asp Ala Ile Arg Asp
      85      90      95
Glu Arg Phe Glu Asn Ala Gly Ile Ala Tyr Gln Gln Phe Ile Asp Gln
      100      105      110
Tyr Asp Ala Cys Phe Glu Thr Pro Ser Val Asp Val Leu Gly Glu Val
      115      120      125
Lys Arg Arg Gly Ile Asp Leu Tyr Ala Val Leu Glu His Gln Gly Thr
      130      135      140
Arg Leu Thr Ala Glu Met Cys Val Gly Gly Ser His Asp Arg Ala Ser
      145      150      155      160
Glu Arg Ser Phe Asn Ala Val Thr Glu Ala His Ile Asn Leu Leu Phe
      165      170      175
Tyr Met Leu Thr Leu Asn Leu Ala Ile His Asn Lys Ile Asp Asn Val
      180      185      190
Gln Lys Gln Leu Arg Thr Lys Leu Gly Phe Leu Glu Glu Arg Leu Arg
      195      200      205
Thr Leu Leu Asn Glu Tyr Ile Tyr Ala Asn Gln Leu Gly Arg Ile Val
      210      215      220
Leu Asp Gly Leu His Ala Ser Glu Thr Leu Tyr Gly Trp Ile Leu Leu
      225      230      235      240
Glu Lys Asn Asp Leu Asp Ala Ala Arg Leu Ile Tyr Lys Asn Asp Leu
      245      250      255
Lys Leu Asn Asn Glu Met Lys Phe Ala Glu Leu His Ala Glu Val Met
      260      265      270
Ser Ile Tyr Gln Lys Arg Tyr Thr Ser Glu Thr Pro Glu Asp Leu Arg
      275      280      285
Asn Arg Ala Phe Ser Arg Cys Gly Leu Ser Glu Asp Arg Ala Gln Phe
      290      295      300
Ala Phe Lys Leu Cys Tyr Tyr Leu His Gln Thr Gly Gln Ile Arg Lys
      305      310      315      320
Tyr Ile Asp Glu Leu Thr Leu Gly Ala Asp Asn Asn Asp Thr Ser Asp
      325      330      335
Ala Thr Val Asp Val Arg Ser Leu Leu Val Pro Ser Ala Ser Gly Leu
      340      345      350
Ala Thr Gln
      355

```

<210> 10807

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10807

```

Asn Asn Cys Leu Val Arg Lys Thr Pro Gln Gly Ser Gly Tyr Ser Gly
1      5      10      15
Ile Thr Ser Met Gly Ser Phe Ala Cys Arg Ala Trp Asn Ser Ser Met
      20      25      30
Gln Leu Ile Leu Asn Thr Ser Arg Gly Leu Ser Thr Val Val Ser Ser
      35      40      45
Leu Ser Ile Ile Tyr Ser Phe Val Cys Asp Ile Tyr Phe
      50      55      60

```

<210> 10808

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 10808

```

His Thr Met Lys Arg Thr Ile Phe Phe Ala Leu Ser Thr Phe Leu Leu
1          5          10          15
Ala Met Thr Ala Ser Ser Val Tyr Ala Ser Thr Glu His Thr Gly Met
          20          25          30
Ser Asp Leu Arg Val Gln Lys Thr Ala Asn Ala Ser Tyr Cys Asn Pro
          35          40          45
Gly Ser His Arg Cys Glu Ala Pro Phe Thr Ile Gly Arg Asp Asn Ile
          50          55          60
Ala Lys Pro Asp Gly Ser Asp Lys Asn Tyr Cys Asn Pro Gly Ser His
65          70          75          80
Arg Cys Glu Ala Pro Phe Ser Thr Gly Arg Asp Asn Ile Ala Lys Pro
          85          90          95
Asp Gly Thr Asp Lys Asn Tyr Cys Asn Pro Asn Ser Arg Lys Cys Asn
          100          105          110
Ala Pro Phe Thr Thr Gly His Asp Asn Ile Asn Gln
          115          120          125

```

<210> 10809

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10809

```

Ala Arg Gln Gly Cys Ser Met Asn Thr Lys Leu Gln Ala Ser Leu Val
1          5          10          15
Lys Val Pro Gln Ile Thr Leu Thr Phe Trp Ile Val Lys Ile Ala Val
          20          25          30
Thr Thr Leu Gly Glu Thr Gly Gly Asp Ala Val Ser Met Ser Met Gly
          35          40          45
Ile Gly Tyr Ala Gly Arg Val Met Thr Pro Thr Tyr
          50          55          60

```

<210> 10810

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10810

```

Ser Pro Lys Phe Phe Ser Lys Leu His Ile Thr Pro Pro Thr Ile Lys
1          5          10          15
Asn Tyr Ser Gln His Tyr Leu Tyr Arg Ala Val Ser Gly Met Ile Val
          20          25          30
Val Ala Asp Thr Ile Thr Lys Ile Leu His Phe Cys Asn Arg Pro His
          35          40          45
Leu Ser Leu His Tyr Cys Asn Leu Leu Asp Thr Phe Asn His Val Leu
          50          55          60
Asn Asn Val Leu Ala Ser Glu Phe Leu Ser His Thr Lys Lys
65          70          75

```

<210> 10811

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 10811

```

Ser Ala Val Glu Ala Asp Ser Pro Asp Glu Tyr Gly Asn Ser His Pro
1          5          10          15
Arg Gln Glu Thr Met Arg Pro Gln Gln Asn Thr Ser Pro Ala Phe Pro
          20          25          30

```

Met Asn Lys Val Pro Glu Val Thr Leu Phe Phe Trp Leu Ile Lys Met
 35 40 45
 Met Ser Thr Thr Val Gly Glu Thr Ala Ala Asp Phe Leu Asn Met Asp
 50 55 60
 Leu Asn Trp Gly Leu Thr Asn Thr Ser Leu Leu Thr Gly Ile Leu Phe
 65 70 75 80
 Ala Val Val Leu Thr Phe Gln Leu Arg Ala Asn Arg Tyr Ile Pro Ala
 85 90 95
 Leu Tyr Trp Ser Thr Val Leu Leu Ile Ser Val Phe Gly Thr Leu Ile
 100 105 110
 Thr Asp Asn Met Thr Asp His Phe Gly Val Pro Leu Ala Leu Ser Thr
 115 120 125
 Ser Val Phe Gly Gly Leu Leu Val Leu Thr Phe Gly Leu Trp Tyr Ala
 130 135 140
 Lys Glu Lys Thr Leu Ser Ile His Ser Ile Asn Ser Leu Lys Arg Glu
 145 150 155 160
 Thr Tyr Tyr Trp Ile Ala Ile Leu Phe Thr Phe Ser Leu Gly Thr Ala
 165 170 175
 Ala Gly Asp Trp Ala Ala Glu Ser Leu Gly Leu Gly Tyr Leu Asn Ala
 180 185 190
 Ala Ile Val Phe Gly Ala Leu Ile Ala Leu Thr Ala Val Ser Arg Tyr
 195 200 205
 Leu Phe Lys Ala Asn Ser Val Leu Cys Phe Trp Ile Ala Tyr Ile Leu
 210 215 220
 Thr Arg Pro Leu Gly Ala Ser Cys Gly Asp Leu Leu Ser Gln Pro Leu
 225 230 235 240
 Thr Ser Gly Gly Leu Gly Leu Gly Thr Thr Gly Thr Ser Ile Leu Phe
 245 250 255
 Leu Leu Thr Ile Thr Ser Leu Ile Gly Tyr Leu Thr Tyr Lys Met Lys
 260 265 270
 Leu Glu Glu Ile Asn Arg
 275

<210> 10812

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10812

Lys Arg Asn His His Phe Ala Gly Cys Asn Lys Arg Gly Ala Ser Val
 1 5 10 15
 Phe Val Phe Ala Phe Ser Lys Asn Gln Thr Pro Cys Ile Gln Asn His
 20 25 30
 Ser Tyr His Phe Leu Lys Asn Asp Phe Thr Ile Phe Ile Ser Lys Ala
 35 40 45
 Gly His Ser Leu Ser Phe Tyr Gly Gln His Thr Pro Asp Glu Pro Ala
 50 55 60
 Tyr Pro Ile Val Asn Ile Trp His
 65 70

<210> 10813

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 10813

Pro Pro Gly Thr Asp Val Asp Pro Arg Pro Gln Val Cys Ile Leu Ala
 1 5 10 15
 Val Ala Ala Gly Ala Cys Pro Ala Ser Cys Pro Ala Val Cys Pro Ala
 20 25 30
 Gln Ala Val Val Glu His Gly Arg Gly Asn Ala Phe Ile Pro His Ile

```

      35              40              45
Arg Arg Asn Val Thr Ser Arg Trp Gln Val Tyr Gly Arg Leu Trp Asp
  50              55              60
Ala Asp Arg Gln Ala Leu Gly Ala Lys Leu Glu Ile Arg Ala Gly Leu
  65              70              75              80
Trp Asn Arg Pro Glu Ile Gly Ala Phe Ser Phe Pro Gly Val Glu Leu
      85              90              95
Arg Glu Lys Arg Arg Phe His Ala Pro Arg Phe
      100              105

```

<210> 10814

<211> 162

<212> PRT

<213> Enterobacter cloacae

<400> 10814

```

Ser Gln His Met Gln Phe Thr Gly Met Thr Asp Met Lys Lys Lys Ile
1              5              10              15
Leu Ala Ile Leu Leu Leu Pro Thr Leu Ala Ser Ala Ala Gln Lys Phe
      20              25              30
Pro Pro Glu Val Ser Ala Ala Leu Gln Phe Asn Lys Trp Tyr Ile Ser
      35              40              45
Gln Ile Ile Ile Gly Lys Glu Pro Leu Lys Asn Tyr Glu Ala Leu Arg
      50              55              60
Pro Tyr Val Thr Arg Glu Thr Ile Ser Lys Leu Lys Ala Met Asp Lys
  65              70              75              80
Leu Asp Pro Asp Glu Tyr Asp Val Pro Asp Val Asp Met Phe Ile Lys
      85              90              95
Ala Gln Gly Tyr Glu Asp Asp Trp Asp Ile Val Ser Ala Arg Ala Leu
      100              105              110
Asp Tyr Asp Ala Ala Cys Met Gln Val Tyr Ile Ser Phe Gly Lys Lys
      115              120              125
Arg Asp His Thr Val Ile Asp Cys Met Val Lys Glu Asp Gly Val Trp
      130              135              140
Lys Val Glu Ser Val Ala Ser Met Asn Ile Ser Asp Asn Leu Met Met
  145              150              155              160
Glu

```

<210> 10815

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 10815

```

Lys Ala Leu Phe Ile Asn Ala Leu Asn Lys Ser Asn His Pro Ile Arg
1              5              10              15
Ile Pro Ser Gln Gly Leu Cys Leu Met Lys Val Ala Lys Lys Gly Gly
      20              25              30
Leu Ala Gln Ser Pro Cys Ser Gln Gly Val Glu Val Ile Ile Val Ile
      35              40              45
Thr Asn Met Val Leu Cys Pro Gly Gly Leu Ser Asp Glu Val Asp Leu
      50              55              60
Trp Asn Cys Ile Gln Lys Pro Ser Ile Arg Pro Ile Leu Pro Gly Val
  65              70              75              80
Ala

```

<210> 10816

<211> 160

<212> PRT

<213> *Enterobacter cloacae*

<400> 10816

```

Thr Met Leu Asn Ile Leu Ile Gln Glu Thr Asp Leu Phe Phe Gln Ala
1           5           10           15
Gly Leu Gln Ser Phe Phe Glu Asp Phe Phe Lys His Asn Phe His Arg
          20           25           30
Ser Ile Thr Phe His Leu Ala Leu Thr Asn Glu Asn Val Ser Gln Ala
          35           40           45
Asp Ile Ile Val Leu Ser Leu Cys Gln Gly Glu Thr Leu Thr Cys Phe
          50           55           60
Pro Glu Leu Leu Ala Arg Gln Lys Gly Ile Val Ile Gly Leu Val Asp
65           70           75           80
Asp Glu Leu Arg Phe Ser Ala Leu Pro Ser Cys Phe Gln Asp Ile Ile
          85           90           95
Phe Leu Pro Arg Arg Ala Ser Leu Asp Arg Ile Ser Gly Val Leu Phe
          100          105          110
Ile Ala Trp Phe Thr Thr Gln Leu Pro Gly Tyr Thr Trp Asn Lys Lys
          115          120          125
Thr Cys Phe Asp Cys Gln His Lys Gly Leu Ser Arg Gln Gln Ile Arg
          130          135          140
Ile Leu Val Asn Phe Tyr Arg Gly Leu Ser Val Val Gln Thr Ala
145          150          155          160

```

<210> 10817

<211> 77

<212> PRT

<213> *Enterobacter cloacae*

<400> 10817

```

Lys Ser Ile Ala Arg Leu Ala Thr Val Ala Phe Thr Ala Thr Val Glu
1           5           10           15
Leu Leu Arg Thr Gly Lys Gly Tyr Ser Asp Gln Ile Ala Ile Met Pro
          20           25           30
Val Gly Ile Lys Gly Met Ser Phe Glu Met Arg Leu Asn Cys Leu Asn
          35           40           45
Thr Cys Phe Cys Met Leu Thr Gln Leu Lys Pro Val Val Cys His Thr
          50           55           60
Ala Leu Leu Leu Pro Ser Ala Leu Ser His Leu Ala
65           70           75

```

<210> 10818

<211> 146

<212> PRT

<213> *Enterobacter cloacae*

<400> 10818

```

Ser Phe Asn Ile Asn Glu Ala His Met Arg Asn Phe Asp Met His Gly
1           5           10           15
Lys Gly His Gly Arg Gly Leu Gly Arg His Arg Met Gly Lys Gly Ile
          20           25           30
Val Ile Gly Ala Val Leu Phe Val Val Leu Gly Leu Leu Val Met Ser
          35           40           45
Leu Trp Asn Ala Leu Leu Pro Ala Ile Leu Gly Val Lys Ala Ile Gly
          50           55           60
Phe Trp Gln Ala Leu Gly Ile Leu Leu Leu Ser Arg Ile Leu Phe Gly
65           70           75           80
Gly Leu Gly Phe Arg Pro Gly Met Phe Gly Ala His Arg Arg Met His
          85           90           95
Glu Gln Trp Met Asn Met Ser Pro Glu Gln Arg Glu Ala Phe Ile Gln
          100          105          110

```

Gln Arg Arg Ala Gly Phe Gly Arg His Gly His Cys Arg Trp His Asp
 115 120 125
 Gly Arg Asp Glu Lys Arg Asp Asp Asn Gly Ala Lys Ala Pro Glu Ala
 130 135 140
 Glu
 145

<210> 10819
 <211> 101
 <212> PRT
 <213> Enterobacter cloacae

<400> 10819
 Asp Tyr Arg Thr Pro Met Thr Ala His Val Ser Asn Asp Pro Leu His
 1 5 10 15
 Gly Val Thr Leu Glu Met Gln Val Asn Ala Leu Val Ala Arg Tyr Gly
 20 25 30
 Trp Asn Glu Leu Gly Asn Arg Ile Lys Ile Asn Cys Phe Arg Lys Asp
 35 40 45
 Pro Ser Val Lys Ser Ser Leu Lys Phe Leu Arg Arg Thr Pro Trp Ala
 50 55 60
 Arg Ala Glu Val Glu Ala Leu Tyr Leu Asp Ser Leu His Asp Asp Gly
 65 70 75 80
 Asn Gly Glu Gln Asp Glu Pro Ala Phe Asn Pro Trp Thr Asp Ser Arg
 85 90 95
 Thr Pro Arg Ser
 100

<210> 10820
 <211> 77
 <212> PRT
 <213> Enterobacter cloacae

<400> 10820
 Phe Asn Gln Gly Leu Ile Thr Val Arg Ile Asp Leu Arg Arg Asp Ile
 1 5 10 15
 Arg Gly Ile Thr Val Lys Pro Asn Leu Phe Gln Cys Ile Thr Ser Glu
 20 25 30
 Met Ser Val Arg Arg His His Ser Pro Asp Asn Lys Gln Phe Val Asn
 35 40 45
 Ile Ile Leu Thr Gln Arg Thr Ser Leu Leu Ile Val Gln Ile Ala Gly
 50 55 60
 Cys Glu Ala Arg His Ser Phe Phe Ser Phe Tyr Pro
 65 70 75

<210> 10821
 <211> 67
 <212> PRT
 <213> Enterobacter cloacae

<400> 10821
 Ala Ile His Phe Phe Leu Ser Leu Ser Glu Phe Ser Ile Pro Asp Tyr
 1 5 10 15
 Leu Met Val Gly Phe Lys Tyr Lys Thr Gly Gln Lys Ile Leu Asn Gln
 20 25 30
 Glu Ala Met Leu Ser His Phe Phe Ala Thr Phe Pro Thr Val Ala Ala
 35 40 45
 Ala Val Phe Ser Asp Asn Ser Tyr Ser Leu Thr Val Asn Ala Gly Met
 50 55 60
 Gly Ala
 65

<210> 10822
 <211> 205
 <212> PRT
 <213> Enterobacter cloacae

<400> 10822

```

Arg Met Ile Arg Gln Gly Phe Ile Leu Thr Thr Ala Met Leu Leu Ser
1          5          10          15
Gly Cys Gly Tyr His Phe Ala Asn Gln Val Asp Ala Tyr Asp Leu Met
20          25          30
Pro Arg Pro Val Thr Asn Lys Arg Phe Gln Ile Val Pro Pro Asp Glu
35          40          45
Ser Ile Gln Ser Arg Met Phe Ser Gly Arg Phe Ala Asp Gly Leu Ala
50          55          60
Lys Lys Gly Val Ile Ile Ser Thr His Gln Pro Asp Tyr Val Leu Arg
65          70          75          80
Phe Arg Ile Ser Ser Ser Gln Glu Asn Met Gln Tyr Ser Glu Gln Leu
85          90          95
Leu Thr Gly Val Thr Gly Tyr Val Val Asp Lys Lys Thr Thr Arg Thr
100         105         110
Asp Lys His Gly Glu Leu His Thr Asp Tyr Asp Tyr Lys Pro Val Asp
115         120         125
Gly Val Ile Gly Thr Glu Thr Met Ser Gln Met His Tyr Met Arg Gln
130         135         140
Leu Asp Val Glu Val Tyr Pro Ser Ala Lys Gly Ala Lys Gln Val Leu
145         150         155         160
Lys Val Ser Met Gln Ser Asn Ala Pro Val Pro Ser Asp Ser Ile Ala
165         170         175
Tyr Ser Ala Met Ile Asp Ala Phe Thr Asp Lys Phe Asp Ala Pro Leu
180         185         190
Arg Ser Gly Asn Tyr Val Ala Val Ile Pro Trp Asn
195         200         205

```

<210> 10823
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 10823

```

Thr Thr Cys Ala Glu Thr Glu Leu Asn Ile Tyr Leu Ser Val Glu Gln
1          5          10          15
Phe Asn Asn Thr Val Arg Pro Asn Phe Leu Lys Ser Leu Ser Asp His
20          25          30
Pro Asp Ala Leu Ala Thr Phe Glu Pro Asn Asp Leu Met Lys Leu Cys
35          40          45
Asn Arg Gln Gly Pro Leu Trp Val Ala Gly Ser Pro Gln Asp Pro Ser
50          55          60

```

65

<210> 10824
 <211> 190
 <212> PRT
 <213> Enterobacter cloacae

<400> 10824

```

Asn Thr Ile Asn Lys Leu Glu Ser Leu Pro Ser Glu Val Asn His Tyr
1          5          10          15
Tyr Glu His Cys Thr Val Pro Val Ile Asp Trp Phe Phe Lys Gln Ala
20          25          30

```

Thr Glu Ala Leu His His Gly Leu Trp Leu Pro Ala Cys Thr Ser Phe
 35 40 45
 Leu Asn Gly Ile Glu Thr Ser Leu Arg Val Thr Leu Lys Leu Lys Ser
 50 55 60
 Thr Val Asn Val Gln Gln Ser Val Pro Val Leu Val Asp Leu Asp Gly
 65 70 75 80
 Thr Ser Val Met Ser Asn Ala Leu Met Arg Lys Ala Lys Gln Glu Gly
 85 90 95
 Met Pro Ile Glu Leu Leu Ser Phe Pro Ala Glu Lys Asn Met Leu Ala
 100 105 110
 Lys Ile Asp Ala Gly Lys Lys Pro Glu Ala Asp Ile Val Arg Leu Arg
 115 120 125
 Asn Ser Leu Cys His Gly Asn Ile Leu Glu Phe Ile Met Ser Val Lys
 130 135 140
 Val Gly Ser Pro Asp Pro Ile Arg Ile Phe Thr Pro Gly Asn Cys Cys
 145 150 155 160
 Gly Leu Ala Leu Leu Leu Ser Ala Leu Ser Lys Lys Trp Thr Val Gly
 165 170 175
 Leu His Gln Tyr Trp Ile Asp Asn Asn Leu Thr Ser Cys
 180 185 190

<210> 10825

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 10825

Thr Met Lys Leu Lys Asn Ile Leu Leu Cys Ala Met Met Ser Val Ala
 1 5 10 15
 Phe Gly Ser Ser Ala Asn Thr Thr His Lys Val Glu Asn Glu Pro Ile
 20 25 30
 Pro Asn Ile Ile Leu Asp Gly Lys Val Asp Asp Ile Cys Lys Asp Ala
 35 40 45
 Ser Ile Arg Thr Glu Leu Asn His Asp Lys Ala Lys Glu Leu Val Thr
 50 55 60
 Thr Asn Leu Lys Gln Ala Leu Pro Leu Asn Thr Val Pro Asp Lys Leu
 65 70 75 80
 Asp Glu Val Ala Glu Ala Phe Val Asn Arg Asp Lys Gly Ala Ser Glu
 85 90 95
 Thr Ala Asp His Cys Leu Val Asn Val Arg Asn Lys Tyr Trp Glu Met
 100 105 110
 Tyr Pro Ser Glu Asp Lys
 115

<210> 10826

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 10826

Glu Val Cys Met Lys Ser Thr Leu Leu Ser Thr Leu Met Leu Val Ala
 1 5 10 15
 Val Gly Val Gln Pro Val Phe Ala Ala Gln Cys Gln Tyr Gly Ala Cys
 20 25 30
 Gly Thr Glu Asn Asp Pro Gly Ile Gly Phe Leu Met Ser Ser Val Gln
 35 40 45
 Met Asp Lys Gly Glu His Leu Lys Glu Leu Ser Gly Val Ala Thr Thr
 50 55 60
 Gly Asp Thr Ile Ser Lys Lys Met Glu Ser Tyr Leu Gly Asn Lys Lys
 65 70 75 80
 Leu Lys Val Asn Thr Asp Ser Thr Arg Lys Gly Pro Gly Asn Thr Thr

				85					90				95				
Ile	Arg	Pro	Thr	Asp	Glu	Leu	Ala	Pro	Thr	Arg	Gln	Leu	Lys	Val	Ile		
			100					105					110				
Arg	Pro	Glu	Leu	Val	Lys	Asn	Pro	Asp	Ser	Gln	Leu	Val	Val	Ala	Phe		
		115					120					125					
Asn	Glu	Arg	Leu	Ala													
	130																

<210> 10827

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 10827

Glu	Arg	Pro	Glu	Gly	Lys	Lys	Met	Ser	Ile	Leu	Ser	Ser	Phe	Val	Ile		
1				5				10					15				
Arg	Ala	Thr	Gly	Ile	Pro	Asp	Lys	Lys	Tyr	Leu	Arg	Asp	Pro	Val	Ile		
			20					25				30					
Lys	Arg	Cys	Tyr	Lys	Arg	Leu	Ser	Arg	Arg	Val	Pro	Ala	Leu	Met	Thr		
		35					40					45					
Gly	Trp	Leu	Leu	Cys	Ile	Leu	Gly	Ser	Gly	Tyr	Val	Ser	Met	Ala	Leu		
	50					55					60						
Glu	Gln	Pro	Asp	Ser	Thr	Val	Leu	Leu	Ser	Leu	Leu	Leu	Tyr	Val			
65					70				75					80			
Met	Ser	Gly	Ile	Leu	Leu	Met	Gln	Phe	Gln	Tyr	Met	Tyr	Ser	Glu	Arg		
				85				90					95				
Ser	Ile	Gly	Tyr	Lys	Phe	Tyr	Leu	Glu	Val	Leu	Met	Asn	Ala	Ala	Ala		
		100						105				110					
Ser	Thr	Gln	His	Lys	Glu	Gln	Leu	Gln	Tyr	Leu	Phe	Ile	Asn	Lys	Pro		
		115					120					125					
Asn	Ser	Ile	Thr	Met	Gly	Asp	Leu	Tyr	Arg	Leu	Tyr	Asp	Phe	Asn	Gly		
	130					135					140						
Gly	Gly	Arg															
145																	

<210> 10828

<211> 374

<212> PRT

<213> Enterobacter cloacae

<400> 10828

Lys	Arg	Pro	Cys	Tyr	Thr	Ser	Ser	Asn	Leu	Phe	Phe	Val	Cys	His	His		
1				5				10					15				
Asn	Arg	Ile	Arg	Lys	Gly	Glu	Arg	Ser	Met	Thr	Arg	Ile	Ala	Leu	Ala		
		20						25				30					
Pro	Ser	Lys	Met	Val	Leu	Leu	Met	Ser	Leu	Val	Ile	Thr	Gly	Ala	His		
		35					40					45					
Ala	Ser	Pro	Glu	Gln	Pro	Leu	Ile	Lys	Asp	Thr	Pro	Phe	Val	Ser	Gly		
	50					55				60							
Gln	Ala	Tyr	Lys	Lys	Gly	Phe	Phe	Trp	Tyr	Asp	Asp	Pro	Ala	Lys	Lys		
65					70				75					80			
Ser	Glu	Ala	Glu	Glu	Glu	Glu	Val	Leu	Pro	Pro	Thr	Gly	Ala	Ala	Ser		
				85				90					95				
Ser	Pro	Ser	Lys	Glu	Glu	Met	Val	Asp	Leu	Asn	Ser	Lys	Trp	Leu	Lys		
		100						105				110					
Glu	Asn	Met	Pro	Arg	Leu	Leu	Thr	Gln	Ala	Met	Asp	Asn	Pro	Thr	Ala		
	115						120					125					
Glu	Asn	Leu	Ser	Arg	Tyr	Tyr	Thr	Ala	Gln	Arg	Leu	Met	Leu	Asp	Ile		
	130					135					140						
Ser	Thr	Arg	Phe	Ser	Asp	Lys	Ser	Lys	Asp	Tyr	Phe	Leu	Lys	Asn	Pro		
145					150				155						160		

Met Met Ser Glu Lys Arg Arg Gln Pro Val Glu Lys Val Ala Leu Asp
 165 170 175
 Ala His Arg Thr Val Val Glu Lys Asn Gln Gln Thr Val Met Lys Asp
 180 185 190
 Ile Phe Thr Lys Ser Gly Leu Phe Phe Phe Gln Ser Thr Cys Gln
 195 200 205
 Phe Cys His Glu Glu Ser Gln Ile Leu Gln Phe Met Gln Asn Tyr Tyr
 210 215 220
 Ser Val Asp Ile Leu Pro Ile Ser Met Asp Gly Arg Pro Leu His Asn
 225 230 235 240
 Gly Leu Phe Gln Asp Phe Asn Ile Pro Asn Ala Gln Ile Ile Asp Gln
 245 250 255
 Phe Lys Ile Arg Glu Val Pro Thr Ile Phe Leu Val Ser Lys Asp Gly
 260 265 270
 Thr Ser Ala Gln Arg Ile Ser Glu Gly Met Ile Ser Ala Asp Glu Leu
 275 280 285
 Lys Asn Thr Ile Ile Leu Ala Ala Lys Gly Met Asn Leu Ile Asp Asp
 290 295 300
 Ala Ser Phe Gln Ser Thr Leu Asp Ile Lys Arg Gln Tyr Thr Ile Gly
 305 310 315 320
 Asp Asp Gly Val Ile Thr Val Asn Lys Ser Glu Met Glu Ser Asp Pro
 325 330 335
 Phe Leu Leu Gln Lys Ile Met Asp Gln Lys Leu Glu Gly Tyr Asp Met
 340 345 350
 Pro Thr Ala Asp Pro Val Asn Tyr Leu Asn Ala Gly Gly Ser Phe Gly
 355 360 365
 Gly Thr Tyr Ala Gln
 370

<210> 10829

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10829

Thr Asn Ala Ala Lys Ile Arg Gln Thr Ser Arg Gln Thr Arg Cys Ala
 1 5 10 15
 Asp Phe Ile Glu Thr Ser Phe Glu Ser His Met Leu Pro Leu Lys Tyr
 20 25 30
 Ile Val Thr Phe Ile Asn Ala Ile Gln Ala Lys Ser Met Asn Leu Arg
 35 40 45
 Ile Leu Arg Ala Val Ser Asp Arg Gln Cys Asn Ala Ile Ala Tyr
 50 55 60

<210> 10830

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 10830

Leu Ser Lys Glu Val Ser Met Lys Ser Ala His Leu Val Cys Leu Leu
 1 5 10 15
 Val Cys Leu Ile Phe Ala Ala Phe Val His Ala Gln Glu Lys Ser Ala
 20 25 30
 Pro Glu Lys Glu Ala Gln Ile Lys Gln Gln Val Leu Lys Asp Val Lys
 35 40 45
 Lys Thr Cys Thr Pro Gln Lys Lys Gln Ser Asp Lys Ala Trp Gln Ala
 50 55 60
 Met Ile Leu Ser Ser Glu Ala Asn Gln Leu Leu Ile Lys Asn Ala Ile
 65 70 75 80
 Thr Ala Val Lys Arg Asp Asn Leu Asp Ala Tyr Trp Asp Ala Val Ser

```
<210> 10831
<211> 156
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10832
<211> 363
<212> PRT
<213> Enterobacter cloacae
```

<400>	10832														
Ala	Cys	Phe	Thr	Met	Ser	Ile	Ser	Thr	Leu	Ala	Arg	Val	Phe	Thr	Pro
1				5					10					15	
His	Gly	Asn	Ile	Val	Tyr	Thr	Ala	Asn	Asp	Phe	Arg	Gln	Thr	Leu	Arg
			20					25					30		
Ile	Val	Phe	Ala	Gly	Met	Ile	Ala	Leu	Ser	Ile	Ser	Ser	Phe	Tyr	Asn
		35					40					45			
Thr	Ser	Tyr	Gly	Val	Phe	Phe	Val	Val	Tyr	Pro	Ile	Met	Leu	Leu	Ser
	50					55					60				
Leu	Val	Pro	Val	Phe	Asn	Arg	His	Val	Ala	Lys	Gln	Phe	Ile	Phe	Ser
65					70					75				80	
Ala	Ser	Leu	Asn	Cys	Val	Glu	Met	Val	Leu	Ile	Ile	Gly	Tyr	Leu	Ser
			85						90					95	
Gln	Trp	Pro	Val	Ile	Met	Thr	Leu	Val	Val	Phe	Ala	Leu	Tyr	Val	Met
			100					105					110		
Arg	Phe	Arg	Phe	Met	Ser	Lys	Gly	Pro	Leu	Phe	Leu	Phe	Gly	Ser	Met
		115					120					125			
Gly	Val	Val	Cys	Gln	Ser	Val	Met	Leu	Asn	Phe	Met	Ser	Tyr	Pro	Thr
	130					135					140				
Thr	Asn	Trp	His	Thr	Leu	Leu	Phe	Ser	Asn	Ile	Glu	Ala	Ser	Val	Met
145					150					155				160	
Ala	Val	Cys	Leu	Ser	Ala	Leu	Met	Asn	Tyr	Leu	Leu	Pro	Asp	Val	Glu
				165					170					175	
Pro	Arg	Lys	Pro	Pro	Pro	Leu	Ile	Glu	Lys	Asp	Asp	Ala	Arg	Val	Arg
			180					185					190		

His Glu Ser Leu Leu Ser Gly Thr Val Ala Thr Leu Ile Phe Val Val
 195 200 205
 Phe Gln Ile Ser Asp Leu Ser Asp Ser Leu Ser Ala Leu Met Ala Gly
 210 215 220
 Ile Leu Ile Leu Phe Pro Met His Tyr Arg Gly Ser Val Ile Ser Ser
 225 230 235 240
 Ile Trp Arg Val Val Gly Val Val Leu Gly Cys Leu Tyr Ile Leu Val
 245 250 255
 Val Gln Leu Ile Leu Tyr Asp His Ser Ser His Met Leu Leu Met Met
 260 265 270
 Pro Leu Ile Gly Leu Gly Leu Ala Phe Gly Ala Arg Leu His Val Met
 275 280 285
 Glu Lys Val Gly Ala Gly Val Gly Phe Ala Ser Ile Thr Thr Ile Gly
 290 295 300
 Ile Met Phe Gly Gln Asn Met His Pro Asp Ser Asp Leu Val Phe Ser
 305 310 315 320
 Asp Leu Tyr Arg Ile Thr Ser Val Thr Phe Ala Leu Val Val Thr Leu
 325 330 335
 Thr Met Val Phe Leu Val His Leu Ile Leu Asn Arg Phe Glu Ala Thr
 340 345 350
 Arg Tyr Val Ile Ala Pro Pro Lys Ala Asp
 355 360

<210> 10833

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 10833

Phe Ile Lys Gly Pro Gln His Gly Arg Arg Gly Ala Gly Ile Ile Asn
 1 5 10 15
 Tyr Lys Val Asp His Ser Cys Ser Trp Arg Arg Ala Val Ser Arg Thr
 20 25 30
 Ala Gly Ala Gly Asn Cys Val Gln Cys Ala Pro Val Asn Gly Leu Ile
 35 40 45
 Pro Phe Phe Arg Arg Asn Leu Glu Gly Asp Lys Ile Val Ile Ile Gln
 50 55 60
 Ser Arg Asp Lys Gln Arg Arg Phe Phe Ile Ile Ile His Lys Ser Gly
 65 70 75 80
 Ala Glu

<210> 10834

<211> 90

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (90)

<400> 10834

Arg Ser Gly Phe Ile Tyr Pro Gln His Arg Leu Ile Gln Glu Val Thr
 1 5 10 15
 Tyr Asp Ser Phe Arg Ser Asn Phe Leu Phe Phe Tyr Tyr Phe Leu Gly
 20 25 30
 Ser Leu Leu Pro Val Tyr Pro Ala Pro Ile Thr Lys Lys Val Gly Met
 35 40 45
 Leu Val Val Pro Leu Thr Leu Thr Phe Gly Cys Tyr Ile Tyr Ala Ile
 50 55 60
 His Leu Asp Asp Ser Ala Gln Gln Thr Asn Leu Leu Val Val Thr Thr

```
<210> 10835
<211> 62
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10836
<211> 337
<212> PRT
<213> Enterobacter cloacae
```

<400>	10836														
Ile	Arg	Ser	Thr	Lys	Gly	Gly	Lys	Arg	Val	Met	Gly	Arg	His	Gln	Pro
1				5					10					15	
Cys	Pro	Thr	Met	Ala	Val	Glu	Thr	Gly	Lys	Arg	Lys	Ala	Gln	Lys	Gly
			20					25					30		
Glu	Arg	Glu	Glu	Ile	Thr	Met	Met	Lys	Glu	Pro	His	Pro	Leu	Leu	Gln
			35				40					45			
Leu	Val	Leu	Asn	Asp	Ser	Gly	Arg	Leu	Thr	Met	Pro	Val	Tyr	Tyr	Arg
	50					55					60				
Asp	Gln	Gln	Tyr	Cys	Pro	Thr	Cys	Leu	Thr	Lys	Val	Leu	Lys	Ser	Glu
65				70						75				80	
Asp	Gly	Ser	Leu	Ala	His	Leu	Gly	Glu	Ile	Asn	Gln	Asn	Thr	Cys	Arg
				85					90					95	
Pro	Ser	Ile	Ser	Val	Val	Val	Thr	Lys	Ala	Ile	Ile	Glu	Met	Leu	Cys
			100					105					110		
Asp	Gly	Glu	Lys	Ile	Phe	Val	Asn	Pro	Ile	Arg	Tyr	Arg	Gly	Arg	Val
		115					120					125			
Leu	Ala	Pro	Ser	Val	Ile	Phe	Ser	Pro	Asp	Thr	His	Thr	Phe	Lys	Pro
	130					135					140				
Phe	Ile	Asn	Thr	Asp	Tyr	Gln	Pro	Val	Gly	Ala	Asn	Trp	Lys	Ser	Glu
145				150						155					160
Lys	Gly	Tyr	Lys	Leu	Gly	Leu	Phe	Tyr	Leu	Lys	Asp	Arg	Ala	Asn	Ser
				165					170					175	
Ile	Asn	Lys	Glu	Glu	Phe	Asp	Phe	Ile	Ala	Val	Ile	Asp	Pro	Lys	Ala
			180					185					190		
Met	Gln	Lys	Glu	Phe	Ile	Ser	Ala	Trp	Ser	Glu	Val	Asp	Glu	Lys	Asn
		195					200					205			
Pro	Leu	Glu	Thr	Leu	Lys	Gln	Ile	Leu	Arg	Ser	Lys	Asn	Asn	Ser	Ser
	210					215					220				
Leu	Trp	Val	Lys	Trp	Pro	Gly	Lys	Ile	Glu	His	Ala	Gln	Lys	Gly	Asn
225				230						235					240
Cys	Asn	Glu	Asn	Tyr	Trp	Phe	Asp	Tyr	Gln	Ser	Asp	Asn	Gln	Glu	Val
				245					250					255	
Asn	Cys	Thr	Val	Ser	Val	Val	Gly	Ile	Glu	Gly	Asn	Ser	Ser	Gly	Glu
			260				265					270			
Thr	Ile	Tyr	Arg	Leu	Gln	Thr	Leu	Leu	Lys	Arg	Lys	Leu	Asn	Glu	Tyr
		275					280					285			

Gln Leu Val Arg Ser Leu Gly Thr Ile Met Leu Leu Asp Asn Thr Gly
 290 295 300
 Asn Met Ile Pro Ser Asn His Pro Tyr Phe Glu Val Ile Ser Lys Ala
 305 310 315 320
 Cys Ile Asn Gly Val Arg Asp Phe Val Arg Gln Asn Pro Trp Val Val
 325 330 335

<210> 10837

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 10837

Leu Val Ser Pro Ala Arg Tyr Gly Ile Leu Phe Met Phe Gly Arg Leu
 1 5 10 15
 Gln Tyr Arg Pro Gly Thr Met Asp Lys Gln Gly Pro Gln Ile Gly Ile
 20 25 30
 Thr Ser Leu Ala Tyr Pro Glu Gln Asp Leu Phe Thr Pro Thr Gly Val
 35 40 45
 Leu Thr Trp Asn Gln Ser Glu Pro Gly Ser Gln Leu Ser Ala Ile Leu
 50 55 60
 Glu Ile Val Gly Phe Thr Asn Gly Arg Asn Gln Arg Ala Gly Gly Asn
 65 70 75 80
 Arg Ala Asn Thr Arg Asp Leu Ala Asp Thr Leu Ala Glu Ser Ile Leu
 85 90 95
 Pro Ile Ala Leu Leu Asn Leu Leu Val Glu Cys Ser Asp Asp Ile Glu
 100 105 110
 Gln Val Arg His Val Val Leu
 115 120

<210> 10838

<211> 443

<212> PRT

<213> Enterobacter cloacae

<400> 10838

Glu Thr Thr Met Ser Gln Lys Phe Ala Val Met Ile Ala Tyr Asp Asp
 1 5 10 15
 Asp Pro Asn Val Lys Arg Tyr Ser Pro Asp Phe Gln Thr Gln Asp Glu
 20 25 30
 Phe Ala Lys Gly Trp Gln Ser Ala Leu Lys Lys Ala His His Thr Ser
 35 40 45
 Gly Gln Lys Ser Val Ile Thr Cys Gly Cys Arg Gly Lys Gly Glu Lys
 50 55 60
 Arg Leu Tyr Val Arg Ala Leu Pro Asn Gly Asp Ala Phe Ile Leu Val
 65 70 75 80
 Lys Ala Ala Asn Thr Gly Ile Glu His Asp Pro Ser Cys Val Phe Phe
 85 90 95
 Ser Leu Asp Ala Arg His Thr Gly Leu Lys Gly Tyr Ala Ser Gly Val
 100 105 110
 Val Arg Ile Thr Thr Glu Gly Asp Met Ala Val Arg Leu Gly Ile Gly
 115 120 125
 Met Thr Glu Lys Asp Pro Pro Glu Lys Ser Glu Val Pro Pro Leu Pro
 130 135 140
 His Val Gln Arg Pro Glu Gly Gly Gln Ala Ser Met Thr Leu Leu Gly
 145 150 155 160
 Leu Leu Ser Leu Leu Trp Thr Glu Ser Gly Leu Asn Val Trp Tyr Pro
 165 170 175
 Lys Met Ala Gly Lys Arg Asn Asp Ser Leu Val Arg Tyr Arg Leu Leu

```
<210> 10839
<211> 72
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

```
<211> 83
<212> PRT
<213> Enterobacter cloacae
```

Ala	Ser	Asn	Ala	Val	Met	Val	Ser	Pro	Ser	Thr	Ile	Leu	Thr	Thr	Phe
1				5					10					15	
Ala	Ser	Lys	Val	Val	Glu	Phe	Pro	Gln	Asp	Ala	Thr	Gly	Asn	Thr	Thr
			20					25					30		

Ile Met Met Gly Lys Ser Asn Phe Val Lys Lys Asn Ile Ile Ser Pro
 35 40 45
 Glu Phe Val Glu Tyr Arg His Val Ser Thr Ser Leu Phe Thr Gly Ser
 50 55 60
 Ile Leu Thr Ser His Tyr Phe Met Gly Gly Leu Lys Thr Asn Leu Phe
 65 70 75 80
 Ala Thr

<210> 10841

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10841

Cys Gln Arg Ser Thr Met Thr Tyr Phe Glu Ser Ala Glu Gly Glu Thr
 1 5 10 15
 Val Ser Lys Glu Arg Ala Leu Gln Glu Leu Ser Arg His Cys Val Pro
 20 25 30
 Glu Thr Asp Phe Glu Glu Phe Phe Ser Asp Met Gly Val Lys Glu Gln
 35 40 45
 Tyr Asp Ala Gln Glu Val Leu Leu Trp Leu Gly Tyr
 50 55 60

<210> 10842

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 10842

Phe Lys Ala Thr Met Asn Met Lys Lys Pro Lys Ala Ala Leu Gln Asn
 1 5 10 15
 Ala Met Lys Glu Asp Val Pro Ala Val Thr Gln Ile Gln Met Arg Ser
 20 25 30
 Thr Val Ser Arg Lys Val Arg Tyr Val Lys Gln Ala Asn Arg Glu Gly
 35 40 45
 Leu Lys Leu Ser Glu Trp Met Ser Arg His Leu Asp Ala Val Cys Asp
 50 55 60
 Thr Ala Asp Glu Ile His Lys Gly Lys Arg Ser Thr Pro Val Ala Pro
 65 70 75 80
 Gly Lys Ile Pro Pro Glu Val Tyr Gln Val Ile Tyr Asp Gln Cys Gly
 85 90 95
 Gly Phe Val Glu Cys Asp Ala Asn Ala Gln Val Ile Trp Glu Ala Cys
 100 105 110
 Arg Asp Ala Ile Leu Asn Gly Asp Lys Gly
 115 120

<210> 10843

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 10843

Gly Asn Arg Met Cys Asp Phe Cys Arg Ala Asp Glu Asn Tyr Phe His
 1 5 10 15
 Met Ala Glu Cys Val Tyr Asp Gln Leu Val Lys Glu Tyr Pro Val Met
 20 25 30
 Trp Leu Arg Asp Ser Thr Arg Ile Gly Ala Cys Tyr Leu Cys Arg Glu
 35 40 45
 Leu Leu Ser Pro Glu Gly Met Val Leu Ala Met Gln Ser Ala Phe Pro
 50 55 60

Ala Lys Gly Trp Arg Leu Arg Ile Trp Tyr Asn Glu Thr Ile Asp Glu
 65 70 75 80
 Glu Ile Glu Pro Gln Arg Gly Asp Cys Ile Glu Leu Ser Ser Arg Ala
 85 90 95
 Asp Ala Leu Leu Ser Phe Met Ser Phe Gln Glu Lys Val
 100 105 110

<210> 10844

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 10844

Ala Arg Ile Ala Asp Thr Ser Leu Val Pro Ser Phe Ile Arg Asn Ser
 1 5 10 15
 Gln Ser Glu Phe Arg Val Ser Gln Val Asn Ile Asn Ser Val Lys Gln
 20 25 30
 Thr Ile Asn Met His Lys Thr Met Gly Trp Phe Gly Ile Phe Met Ala
 35 40 45
 Phe Phe Ser Cys Gln Arg Lys Ala Glu Val Ser Pro Ser Val Arg Asn
 50 55 60
 Arg Asp Val Met Leu Trp Phe Arg Glu Cys Val
 65 70 75

<210> 10845

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10845

Phe Thr Ser Asp Met Ala Thr Cys Glu Met Gly Met Val Thr Val Ile
 1 5 10 15
 Thr Met Cys Leu Leu Ala Val Leu Val Thr Gln Pro Leu Lys His Ile
 20 25 30
 Thr Phe Lys Tyr Asp Phe Leu Leu Gly Leu Asn Met Cys Leu Ser Ile
 35 40 45
 Val Arg Gln Pro Ile Phe Thr Pro Thr His Glu Leu Asn Lys Asn His
 50 55 60
 Lys Leu Asn Glu Arg Phe Asn Ser Leu Ala
 65 70 75

<210> 10846

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10846

Ile Cys Ala Leu Val Ser Phe Trp Ala Glu Leu Leu Lys Pro Asp Ile
 1 5 10 15
 Pro Ser Arg Pro Tyr Ile Lys Gln Ser Ala Ser Ser Ser Thr Gly Gly
 20 25 30
 Gln Cys Leu Thr Gly Asn Ser Lys Asp Ile Leu Phe Ala Asp Lys Phe
 35 40 45
 Asp Ile Gly Phe Thr His Ser Lys Ser Lys Leu Leu Lys Thr Leu Leu
 50 55 60
 Tyr Arg
 65

<210> 10847

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 10847

```

Ile Cys Leu Ile Arg Leu Ser Met Met Asn Lys Glu Gln Leu Ile Asp
1           5           10           15
Lys Leu Glu Arg Val Val Cys Gly Gln Tyr Ser Tyr Glu Met Gln Glu
          20           25           30
Leu Ala Tyr Ser Ala Leu Cys Cys Ile Lys Gly Thr Pro Asp Asp Cys
          35           40           45
Ala Lys Phe Pro Val Thr Arg Pro Leu Pro Asp Thr Leu Val Asp Val
          50           55           60
Trp Asp Glu Ile Gly Gln Tyr Leu Gly Thr Gly Lys Ala Ile Glu Thr
65           70           75           80
Arg Ser Cys Gly Val Ser Leu Leu Leu His Gly His Cys Tyr Asp Ser
          85           90           95
Asn His Val Leu Tyr Trp Arg Asn Ala Gly Ala Leu Pro Ala Ala Cys
          100          105          110
Asp Thr Pro Leu Ala Gly Gly Ser Arg Lys Leu Phe Thr Cys Ser Ala
          115          120          125
Cys Gly Val Asp Gly Leu Asp Glu Pro Pro Glu Thr Ser Cys His Cys
130          135          140
Cys Thr Glu Gly Ala His Trp Ile Glu Ser Arg Leu Phe Thr Ser Gly
145          150          155          160
Gln Ala Asp Pro Glu Glu Phe Arg Pro Val Ala Val Val Lys Glu Cys
          165          170          175
Ala Gly Ser Thr Pro Asp Asp Arg Leu Ile Trp Ser Val Ile Glu Gln
          180          185          190
Leu Asn Gly Glu Leu Ala Glu Gly Asp Lys Leu Phe Lys Gln Arg
          195          200          205

```

<210> 10848

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10848

```

Ser Gly Lys Pro Ala Val Met Pro Phe Leu Thr Glu Thr Lys Gly Lys
1           5           10           15
Arg Gln Val Ser Pro Val Ile Phe Thr Leu Val Arg Lys Ile Leu Met
          20           25           30
Asn His Glu Ser Arg Thr Val Tyr Leu Asn Thr Ala Ile Glu Ala Leu
          35           40           45
Leu Lys Ala Glu Ala Ala Leu Asn Glu Leu Ala Leu Ala Tyr Val Leu
          50           55           60
Lys Pro Gly Glu Lys Ala Ser Ala Cys His Pro Arg Thr Gly Thr Leu
65           70           75           80
Ser Thr Ala Ser Gln Val Arg Lys Leu Arg Arg Val Leu Glu Lys Asn
          85           90           95
Lys Leu

```

<210> 10849

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 10849

```

Leu Ser Gln Pro Arg Arg Ile Ser Pro Leu Ile Arg Thr Phe Leu Lys
1           5           10           15
Ser Ser Asp Asp Phe Ser Arg Glu Leu Ser Phe Leu Phe His Arg Ser
          20           25           30

```

Ile Lys Ile Arg Asn Ser Gly Phe Ala Ile Phe Gly Ala Gly Leu Leu
 35 40 45
 Ile Met Ile Phe Gly Leu Cys Leu Trp Leu Leu Ser Leu His Leu Ser
 50 55 60
 Pro Ser Val Leu Asp Phe Asp Ile Asp Val Pro Leu Ser Phe Phe Asn
 65 70 75 80
 Ser Ser Glu Gly Glu Asp Lys Leu Val Val Ser Asp Phe Gly Asp Ala
 85 90 95
 Phe Gly Gly Phe Leu Thr Thr Tyr Ser Lys Leu Leu Leu Gly Ile Met
 100 105 110
 Gly Leu Leu Val Val Ser Ser Thr Ala Phe Lys Ile Leu Lys Gly Glu
 115 120 125
 Glu Ile Gly Glu Ile Phe Pro Met Leu Leu Ile Ala Gly Ala Phe Leu
 130 135 140
 Ile Gly Leu Ser Val Phe Thr Ser Ala Leu Gly Ser Glu Glu Thr Asp
 145 150 155 160
 Ala Thr Ser Ala Ser Thr Val Lys Val Ile Lys Lys Tyr Val Lys His
 165 170 175
 Glu Lys Tyr Asp Lys Leu Val Ala Tyr Leu Asn Asp Ser Asn Trp Pro
 180 185 190
 Ser Gly Glu Glu Val Ser Val Asn Tyr Leu Lys Ala Gln Leu His Ile
 195 200 205
 Lys Leu Gly Lys Pro Asp Val Lys Leu Thr Gln Asn Val Val Arg Ala
 210 215 220
 Tyr Met Ser Gly Val Leu Gln Ser Asn Ile Pro Val Lys Val Arg Tyr
 225 230 235 240
 Ala Leu Glu Lys Thr Ala Leu Asp Lys Ser Val Ser Pro Leu Ala Ile
 245 250 255
 Arg Tyr Glu Gln Lys Arg Met Ser Lys Ser His Thr Phe Ser Lys Ala
 260 265 270
 Ser Val Asn Cys Leu Lys Val Gly Ser Pro Val Ala Phe Val Gly Val
 275 280 285
 Leu Phe Ala Leu Leu Gly Ile Lys Ile Arg Arg Arg Val Arg Phe Leu
 290 295 300
 Glu Ser Asn
 305

<210> 10850

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10850

Gly Tyr Met Met Cys Asn Phe Thr Pro Val Gln Ile Ile Ala Asp Tyr
 1 5 10 15
 Ile Leu Arg Phe Leu Lys Asn Asn Thr Asp Ala Lys Leu Tyr Glu Ala
 20 25 30
 Met Gln Arg Leu Glu Lys Lys Ile Gly Gln Phe Val Ala Asp Gly Val
 35 40 45
 Asp Glu His Gln Leu Arg Ser Ser Leu Ser Lys Val Cys Arg Ser Arg
 50 55 60
 Ser Arg Ala Ala Leu Lys Glu Glu Cys Glu Gln Leu Ile Pro
 65 70 75

<210> 10851

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 10851

Gly Arg Glu Gly Met Ser Gly Leu Ser Ser Ser Ala Gln Lys Leu Thr

```

1           5           10           15
Arg Ala Gln Ile Tyr Val Leu Arg Arg Met Ala Ser Gly Thr Ile Tyr
                20           25           30
Asp Ile Ser Gly Asn Phe Arg Arg Ala Arg Glu Arg Arg Thr Phe Met
                35           40           45
Gly Asn Pro Asp Asp Val Thr Cys Arg Ser Ser Pro Val Leu Phe Arg
                50           55           60
Leu Gly Leu Val Glu Leu Cys Gln Pro Val Arg His Leu Glu Pro Gly
65           70           75           80
Leu Tyr Tyr Arg Leu Lys Leu Ser Ser Ser Gly His Glu Ala Leu Lys
                85           90           95
Ala Asn Ala His Leu
                100

```

<210> 10852

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 10852

```

Glu Thr Glu Pro Asp Thr Ser Leu Leu Ser Gly Lys Ala Gly Gln Gln
1           5           10           15
Met Glu Arg Gln Glu Leu Asn Pro Leu Val Leu Ile Met Ile Glu Glu
                20           25           30
Asn Lys Met Lys Asp Asn Lys Thr Arg Pro Val Asp Ser Tyr Ala His
                35           40           45
Ala Asp Phe Met Glu Ser Val Phe Ser Asn Leu Arg Ala Phe Cys Asp
                50           55           60
Ala Glu Cys Gln Arg Leu Thr Ala Gly Tyr Pro Pro Thr Val Lys Pro
65           70           75           80
Glu Gln Gln Ser Thr Asp Gly Gln Leu Ser Ala Ala
                85           90

```

<210> 10853

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10853

```

Ile Ile Thr Cys Gln Phe Val Gln Ile Ser Ala Ser Leu Ser Pro Gly
1           5           10           15
Gln Lys Pro Gly Ser Ile Gln Lys Leu Asn Val Pro Val Tyr Leu Tyr
                20           25           30
Ile Ser Ser Ile Pro Cys Asp Leu Gln Glu Thr Arg Thr Gly Leu Ala
                35           40           45
Ile Pro Val Leu Pro Leu Ser His His Trp Pro Arg Gln Pro Glu Lys
                50           55           60

```

65

<210> 10854

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 10854

```

Trp Ala Thr His Ser Val Ser Thr Ser Leu Thr Ile Lys Val Leu Phe
1           5           10           15
Met Ser Asn Ser Phe Asp Lys Pro Gln Thr Leu Pro Val His Asn Ser
                20           25           30
Asp Ala Glu Pro Phe Phe Pro Lys Asn Leu Gly Pro Phe Ile Glu Gln

```

```
<210> 10855
<211> 118
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10856
<211> 63
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10857
<211> 64
<212> PRT
<213> Enterobacter cloacae
```

```

<400> 10857
Lys Asn Arg Tyr Ala Gly Lys Arg Val Ile Pro Pro Phe Ser Thr His
1          5          10          15
Asn Phe Thr Val His Leu Pro Leu Thr Leu Pro Val Ile Asn Gly Ile
          20          25          30
Leu Ser Asp Trp Ala Asp Pro Thr His Asn Leu Asn Cys Trp Leu Thr

```

35 40 45
Val Leu Gln Pro Asn Ser Leu Tyr Leu Ala Gly Val Arg Pro
50 55 60

<210> 10858
<211> 174
<212> PRT
<213> Enterobacter cloacae

<400> 10858
Cys Cys Pro Leu Lys Arg Glu Ser Lys Pro Val Thr Thr Leu Val Phe
1 5 10 15
Glu Met Ala Asp Ile Asn Lys Leu Ile Glu Glu Ile Arg Thr Ala Lys
20 25 30
Thr Phe Ser Val Thr Pro Asp Gln Ile Tyr Asp Pro Ala Cys Tyr Pro
35 40 45
Gly Gly Ala Leu Leu Asn Ala Glu Gly Gln Thr Glu Glu Glu Ala Arg
50 55 60
Lys Ala Gly Arg Val Phe Phe Pro Ser Ser Ser Lys Ile Ala Ser Thr
65 70 75 80
His Leu Val Pro Lys Val Leu Leu Ala His Ser His Gly Val Tyr Leu
85 90 95
Ile Thr Asn Ala Glu Leu Glu Gly Ser Pro Ala Ser Arg Asp Thr Val
100 105 110
Ala Tyr Ala Gln Gly Met Asn Pro Lys Leu Asp Glu Asp Trp Asp Tyr
115 120 125
Ala Cys Asp Ala Ala Leu Gly Gly Ser Asp Cys Ser Tyr Thr Ile Pro
130 135 140
Val Glu Trp Leu Glu Leu Ala Val Glu Gln Gly Phe Gln Glu Phe Arg
145 150 155 160
Leu Arg Met Ser Glu Thr Asn Ile Lys Leu Val Ser Lys
165 170

<210> 10859
<211> 77
<212> PRT
<213> Enterobacter cloacae

<400> 10859
Glu Phe Ser Leu Asn Gly Arg Gln Pro Met Lys Met Phe Phe Thr Pro
1 5 10 15
Tyr Val Arg Ile Val Phe Tyr Phe Cys Ala Leu Ile Phe Ile Val Tyr
20 25 30
Ser Phe Ser Asp Phe Phe Gln Gly Val Pro Asp Ser Thr Phe Phe Ser
35 40 45
Ala Val Ile Thr Leu Leu Val Ile Gly Thr Ile Val Ala Arg His Leu
50 55 60
Asp Arg Lys Lys Ser Leu Lys Tyr Thr Ser Gln Ile
65 70 75

<210> 10860
<211> 81
<212> PRT
<213> Enterobacter cloacae

<400> 10860
Phe Asn Lys Asp Arg Phe Met His Asn His Glu Ile Gln Thr Ile Ala
1 5 10 15
Ile Phe Ser Ala Gln Tyr Lys Asn Ile Glu Asp Ala Glu Asn Ala Gly
20 25 30
Ala Leu Tyr Ser Val Asp Ile Glu Tyr Pro Met Thr Leu Asn Asp Leu

```
<210> 10861
<211> 79
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10862
<211> 109
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10863
<211> 97
<212> PRT
<213> Enterobacter cloacae
```

<400> 10863															
Gly	Tyr	Asn	Met	Lys	Ile	Ser	Gln	Leu	Glu	Ser	Gly	Met	Gln	Val	Trp
1				5					10					15	
Ser	Val	Thr	Arg	Thr	Lys	Met	Gly	Asn	Thr	Thr	Ile	Ser	Thr	Val	Ile
			20					25					30		
Val	His	Pro	Val	Val	Ile	Ile	Glu	Ile	His	Asp	Asn	His	Val	Ile	Ala
		35					40					45			
Arg	Trp	Asn	Gly	Asn	Ala	Pro	Arg	Arg	Phe	Gly	Glu	Thr	Ala	Ile	Arg
	50					55					60				
Gly	Trp	Lys	Lys	Glu	Lys	Pro	Leu	Leu	Val	Arg	Glu	Pro	Phe	Gly	Asn

```
<210> 10864
<211> 206
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10865
<211> 117
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

<210> 10866
 <211> 179
 <212> PRT
 <213> Enterobacter cloacae

<400> 10866
 Lys Lys Cys Arg Thr Trp Tyr Cys Cys Val Val Ala Gln Leu Asn Asn
 1 5 10 15
 Gln Pro Lys Glu Arg Thr Lys Met Ser Ala Ile Glu Thr Glu Val Lys
 20 25 30
 Asn Asn Ser Asn Glu Ile Ser Leu Arg Gly Tyr Leu Glu Arg Thr Gly
 35 40 45
 Asn Gly Ala Arg Lys Gly Asn Gly Leu Ile Ile Asp Pro Ser Val Val
 50 55 60
 Val Gln Gln Glu Gly Phe Asn Thr Arg Thr Ala Gly Met Gly Glu Leu
 65 70 75 80
 Tyr Tyr Ser Met Pro His Val Val Glu His Leu Asn Ser Leu Ala Asp
 85 90 95
 Ala Tyr Met Glu Asp Pro Phe Ser Val Thr Pro Ile Val Val Gln Met
 100 105 110
 Val Asn Gly Val Pro Val Leu Arg Gln Gly Ala Cys Arg Ile Arg Ser
 115 120 125
 Ile Ala Ile Ala Asn Arg Gln Leu Glu Ala Glu Gly Arg Glu Arg Ile
 130 135 140
 Thr Arg Ile Arg Cys Glu Gln Phe Arg Gly Ser Ala Ser Lys Ala Glu
 145 150 155 160
 Leu Phe Thr Leu Thr Gly Asn Ser Asn Leu Ala Leu Ser Val Val Thr
 165 170 175
 Glu Ala Leu

<210> 10867
 <211> 68
 <212> PRT
 <213> Enterobacter cloacae

<400> 10867
 Ala Gly Ala Asp Lys Met Glu Asp Ala Ile Asn Val Pro Ile Thr Tyr
 1 5 10 15
 Tyr Asp Ser Asn Gly Cys Leu Ile Val Gly His Asn Leu Val Gly Lys
 20 25 30
 Ile His Pro Gln Leu Phe Asp Lys Leu Val Arg Arg Ser Asn Asp Gly
 35 40 45
 Ser Thr Arg Cys Gln Gln Ala Lys Ile Thr Ser Tyr Leu Glu Gly Leu
 50 55 60
 Leu Asn Gly
 65

<210> 10868
 <211> 92
 <212> PRT
 <213> Enterobacter cloacae

<400> 10868
 Arg Gly Asn Arg Ile Met Ser Ile Pro Met Lys Gly Leu Ser Lys Arg
 1 5 10 15
 Gly Trp Tyr Asn Ser Leu Thr Asp Ser Val Glu Tyr Lys Tyr Phe Asn
 20 25 30
 Gly Gln Thr Glu Ile Ser Glu Ser Ala Tyr Lys Leu Leu Ala Ser Gly
 35 40 45

Asn Lys Pro Lys Pro Thr Val Lys Pro Ala Lys Ala Val Thr Thr Tyr
 50 55 60
 Lys Val Lys Pro Lys Pro Thr Ile Glu Gln Gln Arg Asp Ala Ala Leu
 65 70 75 80
 Lys Glu Ala Ile Lys Gln Met Val Ser Gly Gly
 85 90

<210> 10869

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10869

Lys Leu Gly Ala Val Pro Val Arg Gln Gly Val Val Val Gly Gly Val
 1 5 10 15
 Ala Pro Gln Pro Leu Thr His Arg Leu Thr Lys Asn Leu Gly Asn Ser
 20 25 30
 Val Arg Lys Pro Glu Phe Ala Asp Arg Trp Gly Arg Pro Thr Gly Phe
 35 40 45
 Tyr Ser Gly Ala Ser Gly Ser Lys Arg Ala His Trp Ser Trp Thr Trp
 50 55 60
 Val Leu Thr Ala Trp Lys Thr Ala Lys Trp Leu Ala Thr Trp Cys Met
 65 70 75 80
 Lys Met Pro Gln Arg Ala His Pro Ile Leu Leu Arg Ser Arg Ala Ala
 85 90 95
 Leu Ala Arg

<210> 10870

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 10870

Pro Ile Ala Ser Val Lys Leu Phe Ala Cys Leu Leu Ser Pro Leu Ser
 1 5 10 15
 Leu Gln Glu Val Ser Asn Met Thr His Ile Phe Tyr Glu Phe Ser Ser
 20 25 30
 Leu Lys Pro Gly Val Pro Asp Val Glu Thr Leu Met Glu Val Ile Asn
 35 40 45
 Ser Ser Glu Leu Thr Arg Phe Val Met Gly Ala Glu Val Val Asp Phe
 50 55 60
 Val Lys Lys Ala Leu Ile Val Asn Thr Thr Ile Gly Ser Phe Lys Asn
 65 70 75 80
 Cys Tyr Phe Ala Phe Asp Asp Gly Ala Tyr Phe Leu Glu Phe Asp Gly
 85 90 95
 Lys Gly Lys Ser Arg Arg Phe Thr Glu Val Pro Asp Trp Phe Val Ser
 100 105 110
 Pro Ala Glu Phe Ala Arg Ser Gln Trp Leu Ile Asn His Asp Leu Ala
 115 120 125
 Asp Val Lys Ala Thr Ala Phe Ile Asp Val Leu Met Ser Tyr Pro Leu
 130 135 140
 Lys Glu Arg Arg Ala His Cys Asn Leu Leu Phe Gly Leu Asp Leu His
 145 150 155 160
 Lys Val Asn Val Val Pro Ala Pro Thr Ala Pro Ala Gly Lys Met Gly
 165 170 175
 Asn Lys Asn Gly Lys Thr Thr Lys Pro Arg Val Thr Asp Leu Gly Ser
 180 185 190
 Phe Glu Leu Phe Thr Ala Phe Phe Ala Arg Met Lys Thr Ala Val Asn
 195 200 205
 Ala Asn Glu Phe Pro Thr Leu Gln Val Leu Thr Gly Gln Glu Asp Leu

210 215 220
 Thr Lys Ala Pro His Asn Leu Lys Gln Gly Ile Arg Thr Trp Phe Lys
 225 230 235 240
 Ala Ile Thr Gly Asp Leu Pro Pro Asn Asn Lys Arg Val Gly Ala Gly
 245 250 255
 Asn Ala Val Leu Phe Cys Ala Pro Val Arg Glu Gln Ile Gln Gln Ile
 260 265 270
 Glu Ala Ile Gly Leu Glu Lys Tyr Tyr Gln Gly Leu Ser Lys Ala Ile
 275 280 285
 Ala Asp Ala Gly Asp Gly Phe Ile Thr Asp Phe Ser Tyr Thr Trp Ser
 290 295 300
 Glu Lys
 305

<210> 10871

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 10871

Arg Ser His Asp Phe Gln Glu Gly Ala Phe Ala Ala Ala Gly Gly Thr
 1 5 10 15
 Gly Tyr Gln Phe Lys Phe Ala Arg Arg Glu Thr Lys Ile Asp Val Leu
 20 25 30
 Lys Asp Gly Val Ile Thr His Thr Lys Ala Asn Ile Pro Asp Ile Gln
 35 40 45
 Lys Ile Phe Phe Ile Ile His Ser Asp Ser Ile Asn Arg Cys Asp Lys
 50 55 60
 Lys Ser Leu Lys His Asn Pro Phe Arg Tyr Ala Leu Ile Ala Leu
 65 70 75 80
 Thr Tyr Ser Lys Cys
 85

<210> 10872

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10872

Arg Cys Trp Ala Asn Val Ile Thr Val Leu Ser Gly Glu Gln His Asp
 1 5 10 15
 Ser Phe Lys Thr Ser Lys Arg Leu Ile Glu Leu Ile Leu Ile Thr Asn
 20 25 30
 Ile Thr Gly Asp Ser Asn Ile Arg Ile Lys Met Thr Leu Leu Phe Val
 35 40 45
 Glu Val Ser Asn Ile Lys Ile Ser Leu Gly Asn Leu Asp
 50 55 60

<210> 10873

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10873

Cys Phe Ala Gly Trp Arg Phe Ala Tyr Pro Ala Tyr Arg Thr Val Gly
 1 5 10 15
 Pro Val Ser Ala Ser Ala Thr Gly Gln Lys Gly Asp His Thr Val
 20 25 30
 Ala Phe Phe Tyr Tyr Asn Ser Ser Arg Ala Ala Asp Thr Met Ser Cys
 35 40 45
 Ala Val Arg Pro Tyr Ser Phe Cys Lys Lys Ser Cys Val Pro Thr

50

55

60

<210> 10874

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10874

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Phe Asp Glu Leu Thr Leu Ile Val Tyr Gly Pro Ile Arg Leu Ala Gln
1          5          10          15
Asp Thr Arg Tyr Gly Val Ala Met Thr Lys Tyr Phe Glu Arg Cys His
          20          25          30
Ser Leu Leu Trp Phe Cys Thr Lys Ile Leu Ile Phe Ile Arg Glu Val
          35          40          45
Glu Val Gln Pro Cys Arg His Pro Lys Ser Arg Pro
          50          55          60

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<210> 10875

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 10875

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Ala Ser Asp Lys Val Ile Gly Leu Asp Val Phe Ala Asp Leu Val Val
1          5          10          15
Val Asp Gly Ala Ile Thr Tyr Gln Arg Val Ser Asp Glu His Leu Pro
          20          25          30
Val Leu Asn Asn Glu Arg Lys Arg Asn Gly Arg Ser Gly Leu Val Arg
          35          40          45
Tyr Gly Glu Ala Val Ser His Glu Asp Asn Leu Arg Leu His Ala Gly
          50          55          60
Arg Arg Ile Leu Asn Ala Asp Pro His Pro Cys Arg Val Ile Leu Thr
          65          70          75          80
Ile Ala Gly

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<210> 10876

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 10876

```

Phe Leu Ile Lys Ile Lys His Glu Ile Ser Gly Lys Pro Val Leu Asn
1          5          10          15
Leu Ile Ala Gly Lys Gly Cys Phe Val Leu Lys Tyr Ile Pro Thr Leu
          20          25          30
Asp Val Leu Asn Gly Ile Thr Phe Lys Leu Ser Val Asp Asn Thr Phe
          35          40          45
Pro Leu Arg Pro Asp Ser Leu Ile Gln Phe His Gln Pro Gly Ile Ile
          50          55          60
Ile His Phe Val Tyr
          65          70

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<210> 10877

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 10877

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Gly Ile Ile Met Ile Arg Met Glu Val Lys Gly Leu Gln Glu Phe Glu
1          5          10          15

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Arg Gln Leu Leu Ser Leu Gly Glu Lys Val Gly Thr Gln Val Leu Arg
 20 25 30
 Glu Ala Gly Lys Ala Ala Leu Glu Pro Val Leu Glu Asp Met Lys Ala
 35 40 45
 His Ala Gly Tyr Asp Glu Ser Ala Lys Asp Glu His Met Arg Asp Ser
 50 55 60
 Ile Lys Ile Arg Ser Ser Ser Ser Lys Ala Lys Gly Asn Ala Val Val
 65 70 75 80
 Tyr Leu Arg Val Gly Pro Ser Lys Lys His Phe Ile Lys Ala Leu Ala
 85 90 95
 Gln Glu Met Gly Thr Val Lys Gln Val Ala Ser Pro Phe Ile Arg Pro
 100 105 110
 Ala Leu Asp Tyr Gln Lys Ala Lys Val Leu Arg Ile Leu Ala Ile Glu
 115 120 125
 Ile Arg Asp Arg Ile Glu Asn His Arg
 130 135

<210> 10878

<211> 135

<212> PRT

<213> Enterobacter cloacae

<400> 10878

Arg Phe Tyr Gly Thr Asn Leu Cys Ala Asn Leu Cys Ser Lys Gln Arg
 1 5 10 15
 Ser Lys Thr Met Lys Ile Val Leu Ser Val Leu Leu Leu Thr Ala Phe
 20 25 30
 Asn Ser Tyr Ala Gly Thr Val Asp Asp Tyr Leu Glu Arg His Ser Glu
 35 40 45
 Ile Lys Ser Asn Ser Val Ala Glu Thr Tyr Val Ser His Tyr Ala Phe
 50 55 60
 Met Ile Ala Met Met Glu Ala Gln Gln Lys His Asn Arg Ser Asp Asn
 65 70 75 80
 Glu Phe Ile Thr Gly Leu Leu Ser Asn Asn Gly Asp Val Tyr Ala Arg
 85 90 95
 Leu Ala Val Lys Lys Leu Ala Asn Asp Cys Leu Thr Gln Arg Ser Ile
 100 105 110
 Gly Gln Ser Gly Glu Leu Asn Asn Lys Glu Cys Asn Ile Val Ile Arg
 115 120 125
 Ala Asp Lys Ser Glu Gln
 130 135

<210> 10879

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 10879

Leu Ile Thr Ile Ala Ala Phe Gly Pro Leu Phe Phe Arg Gly Lys Gln
 1 5 10 15
 Met Leu Asp Gln Asn Val Val Lys Gln His Cys Arg Ile Asp Thr Asp
 20 25 30
 Phe Thr Gly Asp Asp Ala Leu Leu Glu Ile Tyr Thr Gly Ala Ala Ala
 35 40 45
 Arg Tyr Val Gln Thr Trp Thr Arg Arg Thr Leu Tyr Glu Lys Glu Ser
 50 55 60
 Ser Pro Gly Tyr Ala Asp Asp Pro Asp Pro Ile Leu Leu Asn Asp Asp
 65 70 75 80
 Val Lys Ala Ala Met Leu Leu Leu Ile Gly His Trp Tyr Ala Asn Arg
 85 90 95
 Glu Ser Val Val Ile Gly Glu Thr Val Ser Gln Val Pro Leu Ala Val

100 105 110
 Glu Ala Leu Leu Gln Pro Tyr Arg Ile Tyr Gly Leu
 115 120 125

<210> 10880
 <211> 127
 <212> PRT
 <213> Enterobacter cloacae

<400> 10880
 Gly Glu Leu Arg Glu His Gly Asn Gly Arg Pro Leu Thr Gly Pro Leu
 1 5 10 15
 Phe Phe Gln Glu Asn Trp Met Ala Glu Tyr Gly Val Gln Thr Trp Asp
 20 25 30
 Ala Ser Gly Lys Val Asn Asn Tyr Gly Val Lys Pro Val Ser Val Cys
 35 40 45
 Gly Tyr Leu Gln Leu Ala Gln Asn Gln Lys Thr Gly Ser Tyr Thr Val
 50 55 60
 Ala Leu Pro Pro Gly Cys Arg Leu Thr Tyr Phe Gln Ser Met Asn Gly
 65 70 75 80
 Asp Gln Phe Gly Thr Ser Arg Arg Lys Ile Thr Ile Ser Gly Gly Thr
 85 90 95
 Ala Thr Val Ser Ala Ala Gly Asp Thr Asp Tyr Ser Ala Gly Thr Glu
 100 105 110
 Pro Ala Ala Ala Ala Tyr Leu Ile Phe Gln Ile Glu Arg Ala
 115 120 125

<210> 10881
 <211> 473
 <212> PRT
 <213> Enterobacter cloacae

<400> 10881
 Ala Pro Thr Arg Ser Pro Ala Pro Pro Ala Thr Asn Pro Phe Ser Phe
 1 5 10 15
 Glu Gln Thr Pro Leu Arg Arg Gly Phe Leu Leu Pro Gly Glu Asn Met
 20 25 30
 Ile Tyr Thr Thr Gly Thr Ile Ala Ile Ser Gly Asn Thr Leu Thr Gly
 35 40 45
 Thr Gly Thr Asn Phe Thr Ala Ala Gly Ser Leu Ile Arg Asn Gly Cys
 50 55 60
 Thr Val Ile Ala Met Thr Ser Pro Val Gln Val Phe Gln Ile Thr Thr
 65 70 75 80
 Ile Gly Ser Ala Thr Ser Leu Thr Val Thr Pro Ala Ala Asn Pro Ala
 85 90 95
 Val Pro Ala Gly Thr Arg Phe Ala Ile Leu Leu Ser Asp Ser Leu Ser
 100 105 110
 Val Asp Gly Leu Ala Gln Asp Ile Ala Glu Thr Phe Thr Met Tyr Gln
 115 120 125
 Arg Tyr Met Ser Gly Phe Ala Asp Val Met Asn Gly Thr Ser Asp Val
 130 135 140
 Thr Ile Thr Ile Asn Gly Thr Ala Val Thr Val Pro Gly Gln Lys Ser
 145 150 155 160
 Leu Ala Lys Lys Gly Ala Asn Ser Asp Ile Thr Ser Leu Ser Gly Leu
 165 170 175
 Lys Thr Ala Leu Ser Ile Glu Gln Gly Thr Gly Ala Lys Asn Ala
 180 185 190
 Ala Asp Ala Arg Thr Asn Leu Gly Leu Gly Thr Ser Ala Thr Leu Asn
 195 200 205
 Ala Arg Pro Asn Glu Thr Tyr Pro Thr Asp Gly Val Leu Thr Val Gly
 210 215 220

Gln Tyr Gly Ile Gly Ala Gln Asn Pro Pro Leu Thr Thr Asp Phe Lys
 225 230 235 240
 Thr Ile Asp Arg Gly Ile Phe Ala Gly Ala Gly Ser Ala Gly Val
 245 250 255
 Asn Phe Tyr Asn Ala Phe Ala Pro Val Leu Val Met Ser Arg Tyr Ser
 260 265 270
 Ser Ser Ala Met Gln Ala Ile Gln Ala Asp Asn Ser Thr Leu Ala Phe
 275 280 285
 Asn Ile Lys Asp Gly Asn Gly Trp Arg Gly Trp Val Lys Leu Tyr Ser
 290 295 300
 Glu Asn Asn Thr Thr Arg Ala Ser Asp Gly Thr Leu Lys Val Ala Ser
 305 310 315 320
 Pro Val Val Arg Ile Val Arg Ser Gln Glu Glu Cys Arg Arg Ala Asp
 325 330 335
 Val Asp Lys Asp Gly Phe Ser Trp Cys Gly Cys Gly Thr Ala Asn Ala
 340 345 350
 Glu Ala Glu Gly Val Thr Leu Phe Arg Leu Asp Val Gly Val Tyr Val
 355 360 365
 Ile Ser Gly Ser Ala Gly Leu Ala Ser Glu Gly Trp Gln Leu Leu Pro
 370 375 380
 Pro Met Asp Pro Gly Gly Met Gly Glu Leu Gly Val Val Glu Ala Glu
 385 390 395 400
 Gln Thr Glu Ser Gly Gly Leu Thr Ile Arg Leu Phe Lys Arg Lys Tyr
 405 410 415
 Ile Leu Ser Glu Glu Gly Glu Ile Val Lys Thr Lys Gly Ala Pro Ile
 420 425 430
 Asp Val Pro Ala Asn Ser Trp Ile Asp Val Arg Leu Asp Met Pro Glu
 435 440 445
 Asp Ser Ile Trp Lys Thr Arg Ala Ser Glu Ala Ser Leu Glu Leu Thr
 450 455 460
 Glu Gln Pro Glu Asp Ile Gln Pro
 465 470

<210> 10882

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 10882

Lys Pro Pro Val Ala Leu Ala Ala Thr Phe Lys Glu Arg Glu Ile Met
 1 5 10 15
 Ala Asp Lys Thr Ser Pro Glu Tyr Ala Met Leu Pro Ala Gly Thr Val
 20 25 30
 Val Met Trp Gly Ala Ala Gly Ser Asp Val Ala Thr Met Lys Pro Leu
 35 40 45
 Ile Asn Cys Lys Ala Leu Gly Ala Thr Gly Gln Thr Gly Ser Phe Val
 50 55 60
 Asp Cys Thr Thr Leu Ile Asp Thr Ser Lys Gln Phe Ile Ser Asp Leu
 65 70 75 80
 Pro Glu Gly Pro Glu Lys Ser Leu Gly Phe Ile Asp Asp Pro Ala Asn
 85 90 95
 Gln Asp Phe Ala Asp Phe Leu Asn Ala Ala Glu Asn Arg Glu Thr Val
 100 105 110
 Gln Phe Tyr Val Glu Leu Pro Asn Gly Arg Thr Ala Asn Met Ile Leu
 115 120 125
 Ala Leu Ser Gly Trp Gln Met Asn Glu Ile Thr Ala Pro Ala Ser Glu
 130 135 140
 Val Ile Gln Ile Thr Val Gln Gly Lys Gln Asn Asn Ile Thr Trp Gly
 145 150 155 160
 Thr Ala Ala Gly Ser
 165

<210> 10883
 <211> 126
 <212> PRT
 <213> Enterobacter cloacae

<400> 10883
 Phe Ser Gly Lys Thr Met Ser Thr Ile Asp Val Ser Ala Leu Lys Ser
 1 5 10 15
 Ala Leu Leu Lys Pro Lys Ser Ala Val Val Thr Ala Glu Ile Phe Gly
 20 25 30
 Thr Thr Val Tyr Leu Arg Arg Met Thr Ala Gly Glu Leu Ile Asp His
 35 40 45
 Glu Glu Ala Leu Arg Asp Ser Gln Ile Ala Glu Asp Ala Arg Lys Ala
 50 55 60
 Ser Glu Ile Ser Val Gln Leu Ile Val Asp Cys Leu Val His Pro Asp
 65 70 75 80
 Gly Ser Leu Ile Ala Ala Lys Asp Lys Pro Thr Ala Ala Glu Leu Leu
 85 90 95
 Gln Thr His Asp Asn Val Ala Leu Leu Asp Ala Ile Ala Thr Val Lys
 100 105 110
 Lys His Ala Leu Gly Lys Leu Glu Asp Ala Glu Lys Asn
 115 120 125

<210> 10884
 <211> 158
 <212> PRT
 <213> Enterobacter cloacae

<400> 10884
 Pro Ser Pro Arg Trp Gly Glu Gly Ile Val Leu His Leu Cys Glu Ser
 1 5 10 15
 Ser Ser Met Arg Ile Lys Thr Gly Leu Met Val Ala Ala Phe Val Met
 20 25 30
 Leu Ala Gly Cys Asn Ala Pro Ala Gln His Val Pro Val Glu Thr Cys
 35 40 45
 Lys Ala Asp Asn Gln Met Gln Gln Thr Thr Leu Tyr Phe Gly Leu Asn
 50 55 60
 Arg Pro Ala Gly Ala Gln Ile Thr Gly Ser Glu Trp Gln Gln Phe Val
 65 70 75 80
 Asp Gln Asp Val Thr Pro Arg Phe Arg Asp Gly Leu Thr Val Phe Asp
 85 90 95
 Ala Arg Gly Gln Trp Leu Gly Asn Asp Gly Lys Val Ala Arg Glu Pro
 100 105 110
 Ser Lys Ala Leu Met Leu Ile His Gly Lys Asp Ala Gln Ser Glu Lys
 115 120 125
 Asn Ile Glu Ala Leu Arg Gly Ile Tyr Lys Ser Arg Phe Ala Gln Glu
 130 135 140
 Ser Val Met Arg Val Asp Gln Pro Val Cys Val Gln Phe
 145 150 155

<210> 10885
 <211> 81
 <212> PRT
 <213> Enterobacter cloacae

<400> 10885
 Gln Asn Ser Gln Lys Gly Leu Asp Leu Arg Leu Pro Gly Cys Gly Met
 1 5 10 15
 Phe Glu Ala Gly Ala Gln Glu Val Asn Leu Leu Leu Arg Arg Lys Pro
 20 25 30

Asp Phe Ile Val Tyr Phe His Ala Asp Lys Lys Arg Pro Asn Thr Ile
 35 40 45
 Pro Val Phe Gly Pro Gly Lys Trp Leu Leu Gly Glu Ser Arg Ala Leu
 50 55 60
 Lys Val Gly Ile Asn Ala Gly Ser Ile Ala Leu Pro Phe Lys Asn Arg
 65 70 75 80

<210> 10886

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10886

Leu Lys Ala Gly Gln Leu Ser Asp Gln Pro His Tyr Met Ile Asn Ile
 1 5 10 15
 Val Pro Phe Leu Ser Leu Pro Phe Val Phe His Ile Leu Val Gly Phe
 20 25 30
 Ile Arg Phe Arg Asp Glu Asn Lys Asn Thr Glu Ala Asn Lys Asn Asn
 35 40 45
 Glu Gly Asn Asp Asp Ala Arg Asn Gln Phe Pro Asp Cys Trp Arg Ile
 50 55 60
 Val Leu Arg Gln Glu Thr Asp Thr Ile Gly Asn Glu Gly
 65 70 75

<210> 10887

<211> 461

<212> PRT

<213> Enterobacter cloacae

<400> 10887

Arg Ile Tyr Lys Gln Gln Pro Asp Pro Asp Ser Thr Val Pro Val Val
 1 5 10 15
 Met Ile Val Phe Leu Tyr Val Ile Ala Val Ala Met Gly Leu Ala Ile
 20 25 30
 Arg Ala Leu Thr Trp Pro Glu Gln Glu His Val Thr Ala Leu Phe Phe
 35 40 45
 Val Pro Ser Val Ile Leu Pro Ile Cys Val Val Ser Leu Leu Val Phe
 50 55 60
 Thr Ser Phe Ile Phe His Asp Ala Asn Ile His Tyr Ala Glu Thr Arg
 65 70 75 80
 Lys Phe Ile Ala Lys Glu Gln Glu Ile Asn Leu Lys Ala Tyr Ala Arg
 85 90 95
 Lys Asn Ile Ala Ile Ala Ala Trp Ser Ala Ile Thr Pro Leu Glu Glu
 100 105 110
 Pro Ala Leu Asn Met Leu Lys Leu Glu Gly Glu Phe Pro Leu Ala Pro
 115 120 125
 Lys Thr Pro Val Asn Ile Gln Leu Glu Asp Arg Phe Asp Gln Thr Arg
 130 135 140
 Asn Glu Gln Met Phe Tyr Arg Leu Leu Asp Pro Met Ala Glu Lys Leu
 145 150 155 160
 Lys Asp Tyr Asn Tyr Arg Ile Phe Glu Thr Val Val Trp Val His Gly
 165 170 175
 Gly Ser Gly Ser Cys Ile Asp Glu Leu Arg Arg Thr Leu Glu Arg Leu
 180 185 190
 Gly Ile Glu Thr Ala Ser Thr Cys Lys Ile Glu Tyr Ser Thr Glu Cys
 195 200 205
 Pro Asp Tyr Ala Ile Val Ser Gln Trp Met Asn Leu Ser Asp Tyr Arg
 210 215 220
 Val Glu Asn Arg Leu Ile Val Ile Val Asp Leu His Glu Glu Ser Gly

225 230 235 240
 Glu Ser Lys Ser Met Glu Asn Ala Cys Ala Phe Leu Leu Thr Ser His
 245 250 255
 Tyr Val Arg Glu Glu Gly Glu Lys Pro Val Tyr Leu Tyr Gln Pro Met
 260 265 270
 Ser Asp Val Thr Asp Val Glu Asp Lys Met Ala Val Phe Leu Glu Thr
 275 280 285
 Gly Ser Val Leu Thr Pro Lys Asn Leu Trp Tyr Thr Gly Leu Ser Arg
 290 295 300
 Ile Glu Lys Tyr Pro Leu Met Gln Ala Leu Asp Lys Lys Ala Leu Thr
 305 310 315 320
 Val Glu Arg Leu Asp Ile Asp Ala Ser Leu Gly Ala Lys Ser Ala Gly
 325 330 335
 Tyr Arg Trp Leu Ala Leu Ala Phe Ala Ala Asp Ala Val Lys Tyr Ala
 340 345 350
 Gln Gly Glu Gln Leu Ala Ala Tyr Ser Asp Lys Asn Lys Phe Cys Ile
 355 360 365
 Thr Ser Leu Ser Ser Met Lys Thr Ala Ile Pro Lys Lys Leu Thr Trp
 370 375 380
 Cys Asn Trp Ser Asn Pro Leu Tyr Pro Ala Gly Met Ala Ala Leu Phe
 385 390 395 400
 Cys Val Leu Ser Leu Ile Ala Tyr Arg Ile Ser Phe Leu Ala Gln Asn
 405 410 415
 Asp Pro Pro Ala Ile Trp Glu Leu Ile Ala Ser Ile Ile Ile Pro Phe
 420 425 430
 Val Ile Phe Ile Gly Leu Gly Ile Phe Val Phe Ile Ser Lys Thr Asn
 435 440 445
 Glu Ala Tyr Glu Asp Met Glu Tyr Glu Trp Lys Arg
 450 455 460

<210> 10888

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 10888

Met Pro Ala Val Ser Ala Leu Phe Thr Leu Asn Pro His Asp Ala Ile
 1 5 10 15
 Asp Asp Tyr Arg Pro Arg Lys Ile Ile Glu Lys Gln Asp Ile Thr Ser
 20 25 30
 Phe Ala Gln Asn Lys Tyr Gly Phe Thr Val Ser Cys Cys Val Leu Pro
 35 40 45
 Cys Ile Gln Gln Leu Leu Ser Thr Phe Gly Thr Tyr Asn Leu Ile Ser
 50 55 60
 Ile Pro Leu Asn Thr Lys Gly Ile Pro Gly Leu Lys Gly Val Ile His
 65 70 75 80
 Arg Arg Tyr Pro Asp Ala Lys Thr Gly Ile Val Tyr Arg Ile Tyr Gly
 85 90 95
 Gly Ile Gly Asp Leu Phe Met Glu Arg Lys Gln Val
 100 105

<210> 10889

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 10889

Ile Ser Arg Gly Lys Lys Tyr Arg Leu Ser Ala Ser Ala Gly Met Glu
 1 5 10 15
 Asn Asn Arg Thr Val Trp Gly Pro Arg Leu Leu Ser Ser Leu Met Ile
 20 25 30

6001

Asp	Phe	Gly	Ser	Ser	Pro	Ile	Val	Ile	Met	Ala	Thr	Arg	Glu	Ser	Phe
		35					40					45			
Pro	Cys	Ala	Ala	Ile	Val	Trp	Phe	Thr	Arg	Leu	Met	Ala	Ser	Ser	Leu
	50					55					60				
Arg	Ser	Val	Leu	Thr	His	Gln	Thr	Pro	Pro	Thr	Gly	Met	Trp	Arg	Asn
65					70					75					80
Ser	Ser	His	Asn	Asp	Trp	Met	Pro	Ile	Glu	Asn	Met	Glu	Ser	Thr	Val
				85					90					95	
Ser	Leu	Phe	Ser	Ser	Asn	Phe	Tyr	Val	Ser	Gln	Phe	Thr	Ser	Glu	Ser
			100					105					110		
Val	Glu	Ile	Asn	Leu	Thr	Leu	Lys	Leu	Lys	Asn	Ile	Arg	Phe	Ser	Met
		115					120					125			

<210> 10890
 <211> 184
 <212> PRT
 <213> Enterobacter cloacae

<400> 10890

Ala	Val	Arg	Arg	Arg	Arg	Thr	Arg	Phe	Arg	Arg	Leu	Ser	Leu	Arg	Ile
1				5					10					15	
Gly	Pro	Ser	Phe	Pro	Gly	Glu	Ala	Gly	Val	Asn	Ile	Leu	Pro	Leu	His
			20					25				30			
Ala	Ala	Pro	Gln	Phe	Thr	Gln	Gln	Val	Ile	Asp	Trp	Ile	Trp	Tyr	Ala
		35					40					45			
Phe	Gly	Glu	Gly	Met	Pro	Arg	Ala	Phe	Phe	Gln	Ser	Ile	Val	Glu	His
	50					55					60				
Ser	Leu	Thr	Pro	Gly	Glu	Leu	Pro	Leu	Thr	Phe	Ile	Ala	Val	Glu	Asp
65					70					75				80	
Asp	Gln	Leu	Leu	Gly	Thr	Val	Gly	Leu	Trp	Arg	Cys	Asp	Leu	Ile	Ser
				85					90					95	
Arg	Gln	Asp	Leu	His	Pro	Trp	Leu	Ala	Ala	Leu	Tyr	Val	Asp	Glu	Ala
			100					105					110		
Ala	Arg	Gly	Asn	Gly	Leu	Ala	Gly	Lys	Leu	Gln	Gln	His	Val	Ile	Gly
		115					120					125			
Tyr	Ala	Arg	Arg	Ala	Gly	Tyr	His	Glu	Leu	His	Leu	Trp	Ser	Ala	Cys
	130					135					140				
Arg	Asp	Phe	Tyr	Glu	Arg	Tyr	Gly	Trp	His	Tyr	Ile	Gly	Asp	Ala	Leu
145					150					155				160	
Glu	Tyr	Pro	Asp	Lys	Thr	Val	His	Leu	Tyr	Arg	Cys	Ser	Leu	Thr	Ala
				165					170					175	
Ser	Ala	Gly	Asp	Thr	Thr	Glu									
			180												

<210> 10891
 <211> 66
 <212> PRT
 <213> Enterobacter cloacae

<400> 10891

Pro	Lys	Gln	Tyr	Leu	Lys	Leu	Val	Ala	Ser	Arg	Gln	Met	His	Phe	Leu
1				5					10					15	
Thr	Leu	Leu	Arg	Thr	Cys	Phe	Leu	Ser	Ile	Ser	Lys	Gln	Lys	Ser	Ser
			20					25				30			
Val	Gln	Arg	Gln	Trp	Lys	Lys	Met	Leu	Ala	Gln	Tyr	Leu	Gln	Ala	Trp
		35					40					45			
Leu	Asn	Leu	Leu	Leu	Thr	Pro	Cys	Ser	Trp	Ile	Ser	Gly	Lys	Asp	Pro
	50					55					60				
Arg															

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65

<210> 10892

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 10892

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Asn Val Leu Ile Leu Ser Thr Gly Leu His Phe Gly Gly Arg Ile Val
1      5      10      15
Met Thr Val Lys Lys Lys Thr Ala Leu Asn His Asp Asp Ile Ala
20      25      30
Asp Gly Arg Ile Val Ser Ser Arg His Leu Val Ser Glu Arg Cys Ala
35      40      45
Glu Leu Ser Glu Leu Glu Tyr Ala Leu Ile Met Thr Ser Asn Ala Phe
50      55      60
Asn Lys Trp Met Val Arg Cys Met Thr Ala Ala Gly Glu Pro Asp Met
65      70      75      80
Gly Ala Phe Asp Val Ser Leu Leu His His Val Asn His Arg Asn Arg
85      90      95
Lys Lys Lys Leu Ala Asp Ile Cys Phe Val Leu Asn Val Glu Asp Thr
100     105     110
His Val Val Thr Tyr Ala Leu Lys Lys Leu Val Lys Ala Gly Tyr Val
115     120     125
Thr Ser Glu Lys Ala Gly Lys Glu Leu Phe Phe Ser Thr Thr Glu Glu
130     135     140
Gly Lys Ala Leu Cys Met Lys Tyr Arg Glu Val Arg Glu Ala Cys Leu
145     150     155     160
Ile Asn Ile Arg Ala Glu Ser Gly Ile Pro Gly Ala Ser Ile Gly Glu
165     170     175
Thr Ala Gln Leu Leu Arg Ala Ile Ser Ser Leu Tyr Asp Thr Ala Ala
180     185     190
Arg Ala Ala Ala Ser Leu
195

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<210> 10893

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 10893

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Gly Gly Arg Met Ile Phe Lys Thr Val Val Ala Thr Leu Phe Thr Leu
1      5      10      15
Ser Gly Leu Ala Ser Ala Leu Ala Ala Thr Pro Ala Tyr Tyr Ile Ala
20      25      30
Glu Phe Gln Ala Thr Asp Leu Asp Ala Ile Lys Pro Tyr Ser Ala Gln
35      40      45
Val Glu Ser Thr Phe Arg Pro Phe Gly Gly Arg Phe Ile Val Arg Gly
50      55      60
Gly Glu Pro Asp Val Lys Glu Gly Phe Gly Ala Gln Gly Arg Leu Val
65      70      75      80
Val Ile Lys Phe Glu Ser Leu Lys Asn Ala Gln Asp Trp Tyr Ser Ser
85      90      95
Ala Ala Tyr Gln Lys Ile Ile Pro Ile Arg His Arg Ala Gly Asn Ser
100     105     110
Arg Thr Tyr Ile Val Glu Gly Leu Pro Glu Leu Ala Pro Val Thr Pro
115     120     125

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<210> 10894

<212> PRT

<400> 10894

<210> 10895

<211> 389

<212> PRT

<400> 10895

Cys 1	Val	Pro	Glu	Arg 5	Glu	Arg	Asp	Arg	Gly 10	Asp	Arg	Thr	Ala	Ala 15	Tyr
Arg	Pro	Val	Gly 20	His	Ser	Asp	Arg	His 25	Cys	Gly	Thr	Asp	His 30	Pro	Tyr
Asp	Ala	Ser 35	Ala	Thr	Pro	Arg	Cys 40	Gln	His	Ser	Ser	Arg 45	Arg	Asp	Gly
Leu	Glu 50	Ser	Arg	Ala	Gly	Tyr 55	Ala	Gly	Asp	Arg	Thr 60	Met	Met	Thr	Leu
Ile 65	Thr	Ile	Asn	Arg	Val 70	Tyr	Tyr	Leu	Ile	Gly 75	Phe	Val	Val	Met	Leu 80
Leu	Val	Val	Met	Thr 85	Leu	Arg	Asp	Arg	Ala 90	Asn	Pro	Lys	Arg	Tyr 95	Thr
Thr	Ala	Leu	Phe 100	Trp	Phe	Leu	Phe	Gly 105	Gly	Ile	Phe	Leu	Phe 110	Gly	Asp
Leu	Met	Val 115	Gln	Glu	Leu	Gly	Lys 120	Ser	Leu	Ala	Tyr	Arg 125	Ile	Ile	Gly
Gly	Ala	Val 130	Ile	Val	Ile	Ala	Leu 135	Leu	Ala	Gly	Phe 140	Gly	Leu	Val	Gly
Lys 145	Gly	Arg	Tyr	Lys 150	Met	Ser	Thr	Glu	Glu	Glu 155	Arg	Val	Ala	Ser 160	Ser
Asn	Arg	Leu	Lys	Asn 165	Trp	Leu	Phe	Leu	Pro 170	Ala	Leu	Met	Ile	Pro 175	Val
Val	Thr	Val	Ile 180	Gly	Thr	Leu	Phe	Leu 185	Lys	Gly	Val	Ser	Ile 190	Gly	Gly
Val	Tyr 195	Leu	Leu	Asp	Gln	Lys	Gln 200	Leu	Thr	Leu	Ala	Ala 205	Leu	Cys	Val
Ala	Cys 210	Val	Ala	Ala	Ile	Leu 215	Thr	Gly	Trp	Trp	Leu 220	Thr	Lys	Gly	Thr
Pro 225	Leu	His	Ala	Val	Arg 230	Gln	Ser	Arg	Arg	Leu 235	Val	Asp	Thr	Ile	Gly 240
Trp	Ala	Val	Ile	Leu 245	Pro	Gln	Met	Leu	Ala 250	Met	Leu	Gly	Gly	Val 255	Phe
Val	Val	Ala	Asn 260	Thr	Gly	Glu	Ser	Val 265	Gln	Lys	Val	Val	Ser 270	Leu	Phe
Val	Asn 275	Pro	Asp	Ser	Arg	Phe	Met 280	Leu	Val	Val	Ile	Tyr 285	Cys	Val	Gly
Met	Ala	Leu	Phe	Thr	Met	Ile	Met	Gly	Asn	Ala	Phe	Ala	Ala	Phe	Pro

290 295 300
 Val Leu Ser Ala Gly Ile Ala Leu Pro Phe Leu Ile Asn Val His His
 305 310 315 320
 Gly Asn Pro Ala Pro Leu Leu Ala Ile Gly Met Tyr Ala Gly Tyr Cys
 325 330 335
 Gly Thr Leu Met Thr Pro Met Ala Ala Asn Phe Asn Ile Val Pro Ala
 340 345 350
 Ala Leu Leu Glu Leu Lys Asp Lys Tyr Gln Val Ile Lys Ile Gln Ile
 355 360 365
 Pro Thr Ala Leu Thr Leu Leu Val Val Asn Val Phe Leu Met Tyr Phe
 370 375 380
 Leu Val Phe Arg
 385

<210> 10896

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 10896

Gly Ala Ala Met Glu Leu Thr Gln His Gln Ala Asp Ala Phe Ala Arg
 1 5 10 15
 Met Pro Leu Thr Tyr Leu Arg Gln Glu Tyr Pro Asn His Ile Met His
 20 25 30
 Leu Leu Asn Asp Asp Gly Asp Val Leu Pro Pro Arg Glu Leu His Pro
 35 40 45
 Ile Phe Tyr Gly Cys Phe Asp Trp His Ser Ala Val His Gly Tyr Trp
 50 55 60
 Leu Leu Leu Arg Cys Leu Arg Leu Trp Pro Glu Leu Pro Cys Arg Glu
 65 70 75 80
 Glu Ile Ile Thr Leu Phe Glu Glu His Leu Thr Asp Glu Lys Val Ala
 85 90 95
 Lys Glu Leu Ala Tyr Phe Thr Ala Pro Phe Arg Ala Ser Phe Glu Arg
 100 105 110
 Pro Tyr Gly Tyr Gly Trp Leu Leu Ala Leu Ala Gln Glu Leu Lys Gln
 115 120 125
 Ser Ser Leu Pro Gln Ala Glu Arg Trp Tyr Gln Thr Leu Gln Pro Leu
 130 135 140
 Thr Arg Asp Ile Arg Gln Arg Leu Val Asp Tyr Leu Ser Lys Leu Thr
 145 150 155 160
 Tyr Pro Ile Arg Val Gly Thr His Tyr Asn Thr Ala Phe Ala Leu Ala
 165 170 175
 Leu Gly Leu Asp Tyr Ala Arg Ala Val Asn Asp Asp Thr Leu Glu Arg
 180 185 190
 Ala Ile Leu Asp Ala Ala Thr Arg Phe Tyr Leu Ala Asp Thr Gln Tyr
 195 200 205
 Pro Ala His Tyr Glu Pro Gly Asp Glu Tyr Ile Ser Gly Ala Leu
 210 215 220
 Thr Glu Ala Leu Leu Met Ser Glu Val Val Glu Asp Phe Pro Ala Trp
 225 230 235 240
 Phe Asp Ala Phe Leu Pro Glu Val Gly Ala Val Ser Ala Leu Met Asn
 245 250 255
 Pro Ala Glu Val Ser Asp Arg Thr Asp Pro Lys Ile Ala His Leu Asp
 260 265 270
 Gly Leu Asn Leu Ser Arg Ala Trp Cys Met Lys His Ile Ala Arg Ala
 275 280 285
 Leu Pro Glu Asn His His Ala Arg Lys Pro Leu His Asp Ala Val Ala
 290 295 300
 Arg His Leu Ser Ala Ser Val Glu His Val Val Gly Ser His Tyr Ser
 305 310 315 320
 Gly Gly His Trp Leu Ala Ser Phe Ala Leu Leu Ala Leu Glu

325

330

335

<210> 10897

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 10897

Cys Thr Gly Phe Ala Leu Leu Arg Ser Ile Lys Asn Ser Arg Arg Arg
 1 5 10 15
 Ala Thr Leu Thr Leu Asp Arg Val Thr Phe Met Asp Ser Ser Thr Leu
 20 25 30
 Leu Pro Leu Ile Gly Ile Pro Val Val Ile Gly Phe Ala Leu Arg
 35 40 45
 Phe Asn Pro Leu Leu Val Val Val Val Ala Gly Leu Ala Thr Gly Leu
 50 55 60
 Leu Val Gly Met Asp Phe Gly Met Leu Leu Glu Thr Phe Gly Glu Lys
 65 70 75 80
 Phe Val Asn Ser Arg Ser Leu Ala Thr Phe Ile Leu Ile Leu Pro Val
 85 90 95
 Ile Gly Leu Leu Glu Tyr Tyr Gly Leu Lys Glu Arg Ala Gln Ala Trp
 100 105 110
 Val Ala Lys Ile Ala Ser Ala Thr Ser Ala Arg Ile Leu Met Leu Tyr
 115 120 125
 Phe Val Ala Arg Glu Gly Thr Ala Ala Leu Gly Leu Met Ser Leu Gly
 130 135 140
 Gly His Ala Gln Thr Val Arg Pro Leu Leu Ala Pro Met Ala Glu Gly
 145 150 155 160
 Ala Ala Leu Asn Glu Tyr Gly Glu Leu Pro Gln Thr Ile Arg Asp Lys
 165 170 175
 Ile Lys Ala His Ala Ala Cys Asp Asn Ile Ala Val Phe Phe Gly
 180 185 190
 Glu Asp Ile Phe Ile Ala Phe Gly Ala Val Leu Leu Ile Asp Ala Phe
 195 200 205
 Leu Lys Glu Asn Gly Ile Glu Gly Ile Glu Pro Leu His Ile Gly Leu
 210 215 220
 Trp Ala Ile Pro Thr Ala Ile Ala Ala Leu Ile His Met Thr Arg
 225 230 235 240
 Leu Leu Arg Leu Asp Ala Ser Ile Arg Arg Asp Val Met Ala Trp Lys
 245 250 255
 Ala Glu Gln Gly Thr Gln Glu Ile Ala Pro
 260 265

<210> 10898

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 10898

Gln Asp Cys Lys Thr Leu Trp Cys Asn Arg Ser Gln Phe Trp Gln Ser
 1 5 10 15
 Phe Tyr Asp Ile Gly Ser Arg Ile Ala Gly Thr Val Ser Asp Arg Asn
 20 25 30
 Asp Leu Leu Val Cys Gly Arg Ala Ile Pro Val Leu Gly Ile Phe Glu
 35 40 45
 Thr Leu Lys Leu Asp Tyr Asn Gln Ser Ala Leu Cys Ser Lys Pro Phe
 50 55 60
 Phe Asn Ile Gly Phe Thr Ser Ser Asp Asp Glu Ala Ser Thr Lys Arg
 65 70 75 80
 Ser Glu Gly Arg Phe Asn Leu Ser Ala Val Arg Phe Asp Ser Val Lys
 85 90 95

Ile Gly Arg Leu Lys Leu Cys Asp Val Ile Ser Arg Arg Cys Cys Gln
 100 105 110
 Gly

<210> 10899

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 10899

Leu Leu Thr Glu Arg Arg Arg Asn Lys Gln Arg Gly Glu Lys Met Val
 1 5 10 15
 His Pro Gly Gly Leu Leu Gly Leu Arg Leu Ala Leu Arg Ala Val Ala
 20 25 30
 Lys Ala Thr Leu Ser Ser Leu Val Leu Ala Ile Asn Ser His Thr Leu
 35 40 45
 Lys Gln Gln His Arg Cys Tyr Pro Gly Glu Tyr Gly Ala Ser Gly Arg
 50 55 60
 Ile Arg Thr Ser Asp Arg Ser Val Arg Ser Arg Val Leu Tyr Pro Ala
 65 70 75 80
 Glu Leu Arg Met His Arg Asp Leu Leu Leu Leu Leu Ile Leu Gly
 85 90 95
 Ile Ala Ser Lys Ala Thr Gln Ser Lys Ile Trp Cys Ile Arg Glu Asp
 100 105 110
 Ser Asn Leu Arg Pro Leu Gly Ser
 115 120

<210> 10900

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 10900

Asn Asn Gly Ser Ser Ala Val Ile Ile Cys Leu Phe Ile Ala Phe Ile
 1 5 10 15
 Gly Ile Val Ile Ser Phe Tyr Ile Asp Tyr Arg Lys Asn Tyr Arg Gln
 20 25 30
 Val Asn Gln Ile Tyr Ala Ile Leu Thr Asn Gln Gln Leu Lys Lys
 35 40 45
 Glu Asp Tyr Gln Thr Trp Gln Asn Leu Gly Phe Trp Gly Phe Gly Phe
 50 55 60
 Leu Thr Thr Ile Leu Ser Arg Val Leu Gln Gly Lys Arg Val Arg Leu
 65 70 75 80
 Thr Glu Cys Arg Trp Leu Glu Pro Gln Ser Cys Asn Lys Phe Phe Ser
 85 90 95
 Asp Phe Asp Leu Ser Trp Val Lys Ser Tyr Arg Arg Lys Ile Leu Ile
 100 105 110
 Ala Thr Val Ile Phe Leu Leu Leu Leu Ile Leu Ser Ser Ile Asn Ser
 115 120 125
 Val
 130

<210> 10901

<211> 384

<212> PRT

<213> Enterobacter cloacae

<400> 10901

Thr Lys Ser Phe Lys Arg Met Pro Asn Arg Arg Ala Met Leu Arg Ile
 1 5 10 15

Thr Ile Pro Pro Trp Arg Cys Gly Trp Ala Thr Leu Arg Thr Pro Leu
 20 25 30
 Cys Cys Ile Arg Ser Leu Thr Gln His Asn Phe Phe Pro Ala Glu Leu
 35 40 45
 Ile Arg His Thr Arg Ile Asp Met Lys Leu Trp Leu Ser Gly Leu Ala
 50 55 60
 Leu Leu Thr Val Ala Thr Thr Ala Gln Ala Glu Asn Phe Arg Ile Val
 65 70 75 80
 Gln Ser Pro Ala Gln Lys Leu Asp Ile Trp Ile Asp Asn Ile Lys Asp
 85 90 95
 Asn Thr Pro Gln Ser Trp Cys Lys Ala Asp Val Ala Leu Arg Ile Val
 100 105 110
 Ala Asn Gly Lys Lys Glu Val Ser Val Leu Glu Asn Phe Val Pro Arg
 115 120 125
 Leu Gly Ser Leu Leu Glu His Gln Cys Ser Lys Leu Asn Thr Leu Asn
 130 135 140
 Trp Thr Leu Asn Asp Pro Glu Gly Thr Thr Leu Ala Arg Gly Thr Ala
 145 150 155 160
 Ala Lys Ala Gln Asp Trp Ala Leu Val Val Lys Gln Gln Glu Thr Thr
 165 170 175
 Ala Ala Thr Thr Thr Ser Gly Ala Leu Leu Pro Pro Asp Gln Asn
 180 185 190
 Pro Glu Thr His Thr Val Ala Ala Asp Arg Thr Pro Trp Gln Glu Phe
 195 200 205
 Thr Leu Gln Asp Gly Cys His Leu Arg Thr Phe Trp Glu Gly Gly Ser
 210 215 220
 Ser Ala Pro Ala Leu Phe Ile Pro Asp Ser Asp Thr Thr Arg Cys Gly
 225 230 235 240
 Asn Gly Ser Trp Leu Ser Gly His Thr Val Val Thr Gln Asn Arg Asn
 245 250 255
 Gly Ala Gln Lys Ala Ile Pro Val Thr Tyr Ile His Gly Phe Pro Val
 260 265 270
 Met Gly Leu Asn Asn Ala Val Asp Pro Glu Lys Ala Leu Ile Thr Ser
 275 280 285
 Val Asn Lys Glu Arg Met Val Phe Ser Thr Pro Asn Ser Asp Gln Ser
 290 295 300
 Trp Met Ile Leu Pro Tyr Asp Ser Thr Leu Asn Gly Trp Lys Ser Asn
 305 310 315 320
 Gly Thr Val Ala Val Glu Ile Thr Arg Glu Ile Ala Ser Asp Asp Ala
 325 330 335
 Arg Leu Gln Ala Arg Ile Ala Glu Val Lys Lys Ile Trp Ser Ala Trp
 340 345 350
 Val Ala Pro Gly Ala Glu Leu Asn Val Val Leu Ile Asp Thr Leu Arg
 355 360 365
 Pro Gln Leu Arg Asp Pro Ala Val Gly Ala Trp Arg Ala Ala Asn
 370 375 380

<210> 10902

<211> 352

<212> PRT

<213> Enterobacter cloacae

<400> 10902

Lys Gly Ala Gly Met Ser Glu Val Ala Pro Ala Thr Leu Arg Val His
 1 5 10 15
 Arg Leu Thr Pro Leu Pro Asp Ala Phe Trp Arg Gly Val Arg Glu Thr
 20 25 30
 Pro Trp Arg Tyr Asp Leu Phe Gln Leu Leu Arg Arg Ile Asp Ala Gln
 35 40 45
 Gly Gly Glu Arg Tyr Pro Leu Gly Arg Ala Pro Leu Pro Lys Phe Glu
 50 55 60

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Pro Leu Arg Ile Gly Gln Lys Pro Ser Met Gly Phe Ala Pro Ser Thr
65          70          75          80
Val Ala Glu Val Arg Gln Arg Glu Glu Asn Gly Leu His Glu Val Ser
      85          90          95
Ile Leu Ser Phe Gly Leu Phe Gly Pro Asn Gly Pro Leu Pro Val His
      100        105        110
Met Thr Glu Tyr Ala Arg Glu Arg Ile His His His Gln Asp His Ser
      115        120        125
Leu Ser Ala Phe Ala Asp Leu Phe His His Arg Leu Thr Leu Leu Phe
      130        135        140
Tyr Arg Ala Trp Ala Asp Ala Gln Pro Ala Val Ser Leu Asp Arg Asp
145          150        155        160
Asp Asn Arg Arg Phe Glu Gly Tyr Leu Ala Ser Leu Ile Gly Met Gly
      165        170        175
Gln Pro Ala Gln Met Ser Lys Gly Ser Leu Ser Ala His Ala Arg Phe
      180        185        190
Thr His Ala Gly His Leu Thr Arg His Gly Arg Asp Pro Glu Gly Leu
      195        200        205
Glu Lys Ile Leu Arg Asn Tyr Phe Asn Val Pro Val Arg Leu Val Ala
210          215        220
Asn Val Pro Gln Trp Met Pro Leu Ser Thr Arg Glu Gln Ala Gln Leu
225          230        235        240
Gly Glu Gly Arg Arg Leu Pro Arg Met Gly Glu Ser Ala Phe Leu Gly
      245        250        255
Ile Ala Val Arg Asp Val Gln His Lys Phe Arg Leu Glu Ile Gly Pro
      260        265        270
Leu Ser Ala Asp Asp Tyr Asn Arg Phe Leu Pro Gly Glu Gly Trp Val
      275        280        285
Thr Glu Leu Arg Asp Trp Val Arg Gln Tyr Ala Gly Val Glu Phe Glu
290          295        300
Trp Glu Thr Arg Val Ile Leu Arg Ala Asp Ala Val Gln Gly Ala Thr
305          310        315        320
Leu Gly Ser Ala Gly Arg Leu Gly Tyr Asn Thr Trp Leu Gly Leu Gln
      325        330        335
Pro Gln Pro Val Pro Arg Gly Asp Leu Val Tyr Arg Ala Glu Arg
      340        345        350

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<210> 10903

<211> 500

<212> PRT

<213> Enterobacter cloacae

<400> 10903

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Ile Arg Lys Pro Ala Gly Asn Arg Thr Glu Arg Met Tyr Asn Ile Lys
1          5          10          15
Phe Val Tyr Leu Phe His Glu Asn Val Ser Pro Ala Leu Phe Ala Lys
      20          25          30
Ile Ile Arg Pro Ser Val Ala Gly Gln Trp Ile Met Ser Val Pro Asp
      35          40          45
His Ser Leu Arg Ser Leu Phe Thr Arg Tyr Asp Leu Leu Arg Thr Ile
      50          55          60
Thr Gly Ala Asn Pro Tyr Gln Ser Gly Arg Asp Thr Arg Thr Leu Ile
65          70          75          80
Ala Gln Asp Leu Glu Met Gly Arg Val Val Ala Ile Asp Glu Ser Phe
      85          90          95
Arg Asp Trp Ser Ser Val Thr Glu Ile Phe Tyr Ile Asn Ala Lys Gly
100          105        110
Gln Leu Gln Ala Ala Ser Leu Val Gly Leu Gly Trp Tyr Pro Val Ser
115          120        125
Thr Ile Val Asp Arg Tyr Glu Thr Met Val Arg Thr Tyr Gly Ser Arg
130          135        140

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Pro Ala Pro Thr Val Leu Pro Lys Gln Val Val Lys Ser Lys Thr Ala
 145 150 155 160
 Gln Val Pro Asp Glu Pro Thr Pro Gly Lys Asp Gly Lys Thr Tyr Ala
 165 170 175
 Gly Gln Leu Gln Lys Met Thr Lys Ala Glu Arg Trp Gln Ala Arg Lys
 180 185 190
 Asp Leu Ile Ala Lys Gly Ser Asn Ser Leu Tyr Pro Asp Ala Gln Ile
 195 200 205
 Ala Ala Lys Arg Leu Ala Ala Asn Asn Ile Ala Val Glu Lys Ala Lys
 210 215 220
 Leu Ala Glu Asn Ile Tyr Lys Thr Val Asn Pro Leu Glu Thr Thr Pro
 225 230 235 240
 Gly Val Pro Glu Gly Trp Thr Asp Ile Ser Asn Asp Asp Ala Leu Leu
 245 250 255
 Gly Lys Phe Gly Leu Asn Lys Ser Met Leu Phe Asp Asp Asp Thr Ser
 260 265 270
 Pro Asn Phe Leu Ala Arg Val Tyr Gln Pro Lys Pro Glu Val Phe Gly
 275 280 285
 Ala Asp Met Asn Pro Thr Leu Val Phe Arg Gly Ser Arg Glu Pro Gly
 290 295 300
 Phe Ala Ser Leu Ser Glu Asn Val Ser Ser Leu Thr Lys Gly Glu
 305 310 315 320
 Leu Ala Pro Val Val Asn Gly Ala Asp Trp Ser Asn Asn Phe Ser Gln
 325 330 335
 Gly Met Gly Met Ala Ser Asp Tyr Tyr Lys Lys Ala Val Ser Ile Gly
 340 345 350
 Lys Glu Leu Ala Arg Ser Gly Gln Asn Ile Asp Ile Ala Gly His Ser
 355 360 365
 Leu Gly Gly Gly Leu Ala Ser Ala Thr Ser Met Gly Ser Gly Lys Ala
 370 375 380
 Gly Trp Thr Phe Asn Ala Ala Gly Leu Asn Ala Gly Thr Val Glu Lys
 385 390 395 400
 Tyr Gly Gly Lys Ile Leu Gly Ser Thr Asp Asn Ile Gln Ala Tyr Arg
 405 410 415
 Val Glu Gly Glu Leu Leu Thr Lys Ile Gln Glu Val Asn Pro Trp Glu
 420 425 430
 Asp Leu Lys Thr Met Lys Gly His Val Pro Ser Trp Ile Leu Lys Glu
 435 440 445
 Glu Ile Ser Ala Leu Ser Pro Asn Ala Ala Gly Ile Pro His Asp Leu
 450 455 460
 Pro Gly Gly Thr Gly Ser Ala Leu Asp Arg His Gly Ile Asn Gln Ala
 465 470 475 480
 Ile Asp Cys Ile Glu Gln Gln Lys Asp Glu Asp Ile Ser Ile Ile Gly
 485 490 495
 Ser Arg Leu
 500

<210> 10904

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 10904

Lys Arg Ser Ser Ser Arg Arg Gly Ala Asn Gly His Pro Arg Arg Leu
 1 5 10 15
 Ser Asp Cys Ser Thr Val Met Asn Ala Arg Asp Lys Val Phe Val Phe
 20 25 30
 Trp Gly Cys Met Asp Ala Leu Ala Val Val Leu Tyr Cys Ala Gln Ser
 35 40 45
 Met Arg His Asp Lys Ile Pro Phe Ile Ser Asp Ile His Ala Phe Ser
 50 55 60

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Thr Val Val Asn Ala Leu Ser Ala Gly Gly Tyr Ser Ala Leu Val Ile
65      70      75      80
Leu Phe Phe Ile Leu Asp Phe Leu Leu Leu Ser Phe Ile Ala Ser
      85      90      95
Ala Trp Cys Phe Phe Ala Arg Asn Leu Tyr Ala Ser Arg Leu Ala Leu
      100     105     110
Tyr Gln Glu Ile Leu Arg Leu Val Gly Phe Arg Tyr Ser Val Ser Leu
      115     120     125
Phe Pro Leu Val Leu Ser Phe Thr Gly Val Met Asn Val Trp Leu Asn
      130     135     140
Gly Phe Leu Phe Ile Leu Ser Glu Phe Leu Lys Ile Tyr Ser Leu Trp
145     150     155     160
Ile Tyr Lys Tyr Glu Gly Glu Arg Pro Pro Val Lys Glu
      165     170

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<210> 10905

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 10905

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Leu Thr Arg Cys Val Arg Ser Cys Ala Ile Arg Gln Trp Ala Pro Gly
1      5      10      15
Ala Arg Arg Ile Lys Gly Gly Ala Met Asn Thr Leu Tyr Gln Arg Leu
      20     25     30
Ala Gly Glu Ser Ile Ser Asp Ala Leu Leu Arg Leu Glu Ala Glu Ile
      35     40     45
Lys Ala Arg Pro Ala Asp Ala Asp Leu Arg Ala Ala Phe Val Gln Phe
      50     55     60
Leu Ile Leu Ser Gly Asn Trp Ala Arg Ala Leu Thr Gln Leu Lys Ser
      65     70     75     80
Trp Leu Ala Leu Met Pro Gln Ala Lys Pro Thr Val Thr Leu Leu Glu
      85     90     95
Gln Ala Ile Gln Gly Glu Gln Gln Arg Ala Arg Val Phe Ala Gly Glu
      100    105    110
Ala Arg Pro Ala Met Pro Glu Ala Gln Trp Pro Trp Leu Ser Thr Leu
      115    120    125
Ala Gln Ala Leu Thr Glu Arg Ala Gly Gln Ala Gln Thr Leu Arg Leu
      130    135    140
Ala Ala Leu Glu Gln Ala Pro Ala Ser Arg Gly Gln Val Thr Leu Glu
145     150     155     160
Asn Glu Glu Ser His Thr Phe Glu Trp Leu Met Asp Gly Asp Ala Arg
      165    170    175
Leu Gly Pro Val Cys Glu Thr Leu Val Asn Gly Arg Tyr Phe Trp Val
      180    185    190
Pro Phe Cys Ala Ile Asp Ala Ile Arg Phe Gln Ala Pro Ala Ser Val
      195    200    205
Thr Asp Leu Val Trp Arg His Ala Leu Val Arg Leu Thr Asp Gly Thr
      210    215    220
Glu Gln Val Cys Gln Ile Pro Ala Arg Tyr Pro Phe Ala Asp Gly Ala
225     230     235     240
Ser Asp Ser Val Arg Leu Gly Arg Thr Thr Glu Trp Leu Pro Leu Asp
      245     250     255
Asp Asp Gly Val Leu Tyr Glu Gly Met Gly Gln Lys Ala Trp Leu Ser
      260     265     270
Glu Gln Ser Glu Ser Pro Leu Leu Thr Leu Ser Leu Val Thr Phe Thr
      275     280     285
Ser Asp Gly Ala Asn Glu
      290     295

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<210> 10906

<211> 631

<212> PRT

<213> Enterobacter cloacae

<400> 10906

Thr	Glu	Arg	Cys	Gly	Val	Met	Met	Glu	Ser	Lys	Leu	Leu	Glu	Tyr	Tyr	1	5	10	15
Asn	Arg	Glu	Leu	Ala	Tyr	Leu	Arg	Glu	Met	Gly	Ala	Glu	Phe	Ala	Glu	20	25	30	
Arg	Tyr	Pro	Lys	Val	Ala	Gly	Arg	Leu	Gly	Met	Arg	Gly	Ile	Glu	Val	35	40	45	
Ala	Asp	Pro	Tyr	Ile	Glu	Arg	Leu	Met	Glu	Gly	Phe	Ala	Phe	Leu	Thr	50	55	60	
Ser	Arg	Val	Gln	Met	Lys	Met	Asp	Ala	Glu	Phe	Pro	Arg	Phe	Ser	Gln	65	70	75	80
Arg	Met	Leu	Glu	Met	Ile	Ala	Pro	Asn	Tyr	Leu	Ala	Pro	Thr	Pro	Ser	85	90	95	
Met	Ala	Ile	Ala	Glu	Ile	Gln	Pro	Asp	Ser	Ser	Arg	Gly	Asp	Leu	Ser	100	105	110	
Lys	Gly	Phe	Ile	Val	Pro	Arg	Gly	Thr	Met	Met	Asp	Ser	Leu	Ala	Leu	115	120	125	
Lys	Lys	Thr	Gly	Val	Thr	Cys	Ser	Tyr	Thr	Thr	Ala	His	Glu	Val	Asn	130	135	140	
Leu	Leu	Pro	Leu	Lys	Ile	Glu	Arg	Ile	Glu	Leu	Gly	Gly	Val	Pro	Ala	145	150	155	160
Asp	Leu	Pro	Leu	Ala	Gln	Leu	Gly	Leu	Ser	Gln	Arg	Gly	Ile	Ser	Ser	165	170	175	
Ala	Leu	Arg	Val	Arg	Ile	Ala	Cys	Asp	Gly	Pro	Gln	His	Leu	Gly	His	180	185	190	
Leu	Asp	Phe	Asp	Arg	Leu	Glu	Phe	Leu	Ser	Gly	Pro	Asp	Ile	Glu		195	200	205	
Ala	Leu	Lys	Leu	Leu	Glu	Leu	Val	Met	Glu	His	His	Ala	Gly	Ile	Val	210	215	220	
Cys	Gln	Thr	Val	Ser	Lys	Gln	Pro	Gln	Arg	Gln	Leu	Leu	Ser	Ser	Asp	225	230	235	240
Ala	Leu	Arg	Gln	Glu	Gly	Phe	Asp	Ala	Asp	Gln	Ala	Leu	Leu	Pro	Asp	245	250	255	
Asp	Leu	Arg	Asn	Phe	Asp	Gly	Tyr	Arg	Leu	Leu	Gln	Glu	Tyr	Phe	Ala	260	265	270	
Phe	Pro	Ala	Arg	Phe	Arg	Phe	Ile	Ser	Leu	Ser	Gly	Leu	Gly	Lys	Leu	275	280	285	
Ile	Gln	Arg	Cys	Glu	Asp	Glu	Lys	Ala	Phe	Asp	Ile	Phe	Ile	Leu	Leu	290	295	300	
Asp	Lys	Ser	Asp	Asp	Gln	Leu	Glu	Arg	Val	Val	Asp	Ala	Ser	His	Leu	305	310	315	320
Ala	Leu	His	Cys	Thr	Pro	Val	Ile	Asn	Leu	Phe	Pro	Lys	Val	Ala	Ala	325	330	335	
Arg	Gln	Lys	Leu	Ser	Glu	Ser	Gln	His	Glu	Tyr	His	Leu	Val	Val	Asp	340	345	350	
Asn	Ile	Arg	Pro	Leu	Asp	Tyr	Glu	Ile	Tyr	Ala	Val	Lys	Lys	Ile	Tyr	355	360	365	
Ala	Ser	Ala	Asp	Gly	Gln	Arg	Asp	Asp	Gln	Thr	Phe	Arg	Pro	Phe	Trp	370	375	380	
Ser	Thr	Trp	Ser	Gly	Asp	Ala	Gly	Asn	Tyr	Gly	Ala	Tyr	Phe	Ser	Leu	385	390	395	400
Arg	Arg	Glu	Gln	Arg	Val	Leu	Ser	Glu	His	Ala	Leu	Arg	Tyr	Gly	Thr	405	410	415	
Arg	Thr	Gly	Tyr	Ile	Gly	Ser	Glu	Val	Phe	Val	Ser	Leu	Val	Asp	Ala	420	425	430	
Gln	His	Ala	Pro	Trp	Gln	Glu	Asn	Leu	Arg	Tyr	Ile	Ser	Ala	Glu	Val	435	440	445	

Leu Cys Thr Ser Arg Asp Leu Pro Leu Met Leu Gln Gln Glu Leu Gly
 450 455 460
 Gln Phe Ile Met Ala Asp Ser Met Pro Val Lys Ala Leu Thr Leu Arg
 465 470 475 480
 Lys Gly Pro Thr Pro Pro Arg Pro Ala Leu Ala Glu Gly Phe Ser Thr
 485 490 495
 Trp Arg Leu Ile Ser Gln Leu Gln Met Asn Tyr Leu Ser Leu Met Asp
 500 505 510
 Ser Glu Asn Glu Glu Gly Ala Ala Ala Leu Arg Gln Leu Leu Gly Leu
 515 520 525
 Tyr Ala Asn Leu Ala Glu Thr Pro Val Ala Arg Gln Val Asp Gly Val
 530 535 540
 Arg His Cys Val Leu Glu Pro Val His Arg Arg Val Pro Glu Pro Gly
 545 550 555 560
 Pro Val Val Phe Ala Arg Gly Ile Gly Ile Thr Leu Thr Val Asp Glu
 565 570 575
 Arg Ala Phe Ser Gly Ala Ser Pro Trp Leu Phe Gly Ser Val Leu Glu
 580 585 590
 Arg Leu Phe Ala Arg Leu Val Ser Ile Asn Ser Phe Thr Glu Phe Thr
 595 600 605
 Leu Lys Ser Gln Gln Arg Gly Glu Ile Gly Tyr Trp Ala Pro Arg Met
 610 615 620
 Gly Lys Arg Ala Leu Val
 625 630

<210> 10907

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 10907

Thr Ile Leu Leu Ser Lys Lys Pro Leu Tyr Gly Lys Gln Glu Ser Met
 1 5 10 15
 Gly Leu Asn Lys Thr Val His Ile Leu Pro Leu Pro His Ile Lys Arg
 20 25 30
 Pro Val Ser Phe Asp Ser Leu Thr Phe Pro Arg Asn Asn Gly Met Asn
 35 40 45
 Val Lys Ser Leu Leu Leu Cys Phe Ile Val Glu Pro Val Lys Asp Ser
 50 55 60
 Ile Ser Asn Leu Ala Val Phe Leu Ala Gly Trp Arg Cys Ala Tyr Pro
 65 70 75 80
 Ala Tyr Ile Glu Gln Arg Tyr Gln Leu Ile Ala Arg Leu Ile Val Gly
 85 90 95
 Pro Cys Lys Arg Ser Ala Ala Gly Arg Asn Ser Gln Asn Ala Arg Ser
 100 105 110
 Gln Gln Ser Asp Ala Leu Thr Arg Pro Ser Ser Ser Ala Thr Ala Val
 115 120 125

<210> 10908

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 10908

Cys Arg Trp Gln Gln Gln Ser Leu Gln Arg Gln Arg Glu Arg Tyr Leu
 1 5 10 15
 Asp Pro Glu Leu Asn Gly Phe His Glu His Ile Phe Met Asn Asn Lys
 20 25 30
 Asn Phe His Arg Met Trp Phe Pro Phe Phe Ala Leu Ile Phe Ala Leu

```
<210> 10909
<211> 344
<212> PRT
<213> Enterobacter cloacae
```

Ile	Ser	Arg	Asp	Leu	Met	Asn	Ile	Asp	Glu	Phe	Leu	Ala	Pro	Ile	Ser
1				5					10					15	
Pro	Asp	Asn	Pro	Cys	Gly	Glu	Asn	Leu	Glu	Tyr	Asp	Ala	Asp	Phe	Gln
			20					25					30		
Ala	Met	Gly	Gln	Ala	Ser	Gln	Gly	Lys	Ala	Glu	Gln	Gln	Phe	Gly	Asp
		35					40					45			
Thr	Ile	Ile	Pro	Ala	Glu	Pro	Ala	Asp	Trp	Asn	Thr	Val	Glu	Lys	Leu
	50					55					60				
Ala	Thr	Ser	Leu	Leu	Gly	Arg	Thr	Lys	Asp	Leu	Arg	Val	Met	Leu	Ala
65				70						75				80	
Leu	Thr	His	Ala	Trp	Thr	Arg	Arg	Arg	Gly	Leu	Ala	Gly	Tyr	Ala	Asp
			85						90				95		
Gly	Leu	Leu	Leu	Val	Gln	Glu	Ala	Leu	Ser	Arg	Tyr	Trp	Glu	Gln	Leu
			100					105				110			
Tyr	Pro	Leu	Leu	Glu	Glu	Tyr	Gly	Glu	Thr	Asp	Pro	Phe	Tyr	Arg	Ile
		115				120					125				
Asn	Ala	Leu	Ala	Gly	Leu	Ser	Asp	Lys	Ser	Asp	Leu	Thr	Val	Ala	Val
	130					135					140				
Arg	Asn	Ala	Ser	Leu	Leu	Arg	Ser	Asn	Gly	Asp	Glu	Ile	Ser	Leu	Arg
145				150						155				160	
Asp	Ala	Gln	Ala	Leu	Leu	Asp	Gly	Ser	Lys	Thr	Glu	Cys	Pro	Asp	Tyr
			165						170				175		
Pro	Gly	Gly	Arg	Pro	Arg	Leu	Ile	Asp	Glu	Leu	Ala	Arg	Gly	Asp	Gln
		180						185					190		
Pro	Gly	Thr	Glu	Ala	Val	Ile	Val	Ile	Asn	Glu	Arg	Leu	Leu	Ala	Ile
		195				200						205			
Arg	Glu	Leu	Leu	Thr	Gly	Tyr	Leu	Gly	Glu	Ser	Gly	Val	Pro	Glu	Met
	210					215					220				
Glu	Gln	Leu	Leu	Lys	Thr	Val	Gly	Leu	Val	Ala	Ser	Ala	Cys	Gln	Val
225				230						235				240	
Thr	Asp	Ile	Ser	Lys	Leu	Leu	Pro	Asn	Arg	Asp	Ala	Gln	Ala	Glu	Gln
			245						250				255		
His	Ala	Glu	Pro	Gln	Pro	Ala	Ala	Ala	Gln	Pro	Val	Gln	Pro	Val	Thr

```

          260          265          270
Asp Trp Arg Ser Val Gln Val Thr Ser Arg Ala Asp Ala Gln Leu Met
      275          280          285
Leu Glu Lys Ala Lys Gln Tyr Phe Ala Gln Tyr Glu Pro Ser His Pro
      290          295          300
Ala Pro Leu Met Ile Glu Arg Val Gln Arg Leu Ser Glu Leu Asn Phe
      305          310          315          320
Met Asp Ile Ile Arg Asp Leu Ala Pro Asp Gly Val Asn Gln Leu Glu
      325          330          335
Asn Ile Phe Gly Arg Arg Glu
      340

```

<210> 10910

<211> 210

<212> PRT

<213> Enterobacter cloacae

<400> 10910

```

Asn Ser Ser Thr Gly Ser Arg Pro Leu Pro Val Val Lys Val Leu Lys
1      5      10      15
Ala Ala Leu Ala Gly Thr Ser Lys Lys Thr Lys Lys Arg Asn Arg Ser
      20      25      30
Gly Pro Glu Arg Ala His Phe Ile Leu Tyr Phe Leu Lys Gly Lys Ile
      35      40      45
Phe Met Arg Pro Ala Phe Gly Ala Ala Trp Asn Arg Phe Arg Glu Val
      50      55      60
Asn Val Asn Val Glu Thr Val Gly Lys Leu Leu Gly Gly Lys Val Gln
      65      70      75      80
His Asn Ile Glu Ala Gly Ile Phe Gln Asn Ala Cys Pro Ile Arg Met
      85      90      95
Ser Tyr Val Leu Asn Tyr Cys Gly Val Pro Ile Pro Ser Asn Ser Arg
      100      105      110
Tyr Ala Thr Val Thr Gly Ser Asp Lys Lys Arg Tyr Met Tyr Arg Val
      115      120      125
Lys Asp Met Ile Ala Phe Leu Pro Thr Val Leu Gly Asn Ala Asp Met
      130      135      140
Thr Val Thr Ser Pro Thr Pro Ser Gln Phe Ala Gly Lys Gln Gly Ile
      145      150      155      160
Ile Ile Phe Ser Gly His Gly Trp Ser Asp Ala Thr Gly His Val Thr
      165      170      175
Leu Trp Asn Gly Asn Ile Cys Ser Asp Asp Cys His Phe Leu Gly Ser
      180      185      190
Pro Gly Asn Gly Ser Phe Ile Pro Gly Ser Ala Thr Leu Trp Ser Leu
      195      200      205
Lys
      210

```

<210> 10911

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 10911

```

His Leu Ser Gln Ile Leu Ser Pro Ser Leu His Pro Leu Asn Ile Ala
1      5      10      15
Thr Glu Lys His Met Lys Leu Arg Val Leu Leu Ser Leu Leu Phe Val
      20      25      30
Met Ala Val Ala Gly Cys Lys Ala Pro Gln Lys Pro Ala Ile Thr Asp
      35      40      45
Asp Thr Ile Val Thr Ser Gln Val Asn Gly Ile Thr Leu Thr His Arg
      50      55      60

```

His Ala Val Thr Pro Pro Ala Glu Phe Thr Gln Val Asn Glu Pro Tyr
 65 70 75 80
 Arg Ala Met Tyr Pro Ala Ser Leu Met Ser Arg Pro Asp Tyr Gly Gly
 85 90 95
 Lys Val Ile Arg Thr Leu Glu Thr Gly Lys Thr Tyr Val Val Leu Gly
 100 105 110
 Gln Val Glu His Phe Trp Met Ala Leu Ala Asp Glu Gly Ser Glu Gln
 115 120 125
 Leu Ile Gly Tyr Val Pro Met Arg Ala Val Ile Lys Ala Asp Gln Tyr
 130 135 140
 Glu Ala Thr Val Arg Lys Gln Ala Leu Arg Pro Lys Ala Arg Lys Lys
 145 150 155 160
 Thr Thr Cys Val Asp Val Asp Gly Asn Ser Lys Ala Cys Lys Asp Ser
 165 170 175
 Ala Asn Gly Thr Trp Ile Leu Asn
 180 185

<210> 10912

<211> 462

<212> PRT

<213> Enterobacter cloacae

<400> 10912

Met Val Ser Gly Ser Ser Ala Ser Asn Ala Leu His Asn Arg Lys Glu
 1 5 10 15
 Ile Ile Met Thr Lys Ala Glu Lys Val Val Trp Thr Glu Gly Met Phe
 20 25 30
 Leu Arg Pro His His Phe Gln Arg Thr Glu Ser Tyr Leu Leu Asn His
 35 40 45
 Val Arg Glu Trp Gly Ala Leu Gln Arg Ser Tyr Leu Trp Gly Phe Leu
 50 55 60
 Asp Leu Glu Leu Asp Glu Ala Met Leu Arg Gln Gly Cys Ile Ala Leu
 65 70 75 80
 Ser Tyr Cys Ser Gly Leu Leu Pro Asp Gly Thr Phe Phe Gln Val Arg
 85 90 95
 Ser Asp Arg Asn Gly Pro Ala Pro Leu Lys Ile Pro Asp Asn Leu Thr
 100 105 110
 Asn Glu Lys Val Val Leu Ala Leu Pro Val Arg Arg Gly Gly Arg Glu
 115 120 125
 Glu Val Ile Phe Ser Glu Glu Gln Ser Ser Leu Ala Arg Phe Ile Thr
 130 135 140
 Phe Glu Gln Glu Val Glu Asp Asp Asn Ala Met Ser Val Gly Glu Ala
 145 150 155 160
 Thr Val Gln Phe Gly Arg Leu Arg Leu Thr Leu Met Leu Glu Lys Asp
 165 170 175
 Leu Thr Ala Glu Trp Thr Ala Ile Gly Val Ala Tyr Val Ala Glu Lys
 180 185 190
 Arg Asn Asp Asn His Val Arg Leu Asp Asn Ser Tyr Ile Pro Pro Met
 195 200 205
 Leu Asn Ala Asn Asn Ser Pro Gln Leu Tyr Gly Met Ile Asn Asp Leu
 210 215 220
 His Gly Leu Leu Val Gln Arg Ser Gln Gln Ile Gly Gly Arg Leu Arg
 225 230 235 240
 Gln Pro Gly Arg Phe Asn Thr Ser Glu Met Val Glu Phe Thr Leu Leu
 245 250 255
 Ser Leu Ile Asn Arg His Leu Gly Asp Val Ser His Leu Lys Thr Leu
 260 265 270
 Pro Leu Phe His Pro Glu Ala Leu Trp Arg Ser Trp Leu Pro Phe Ala
 275 280 285
 Thr Glu Leu Ala Thr Trp Thr Pro Gln Arg Thr Ala Glu Ser Ile Leu
 290 295 300

Pro Val Tyr Asp His Asp His Leu Ala Val Cys Phe Ser Lys Leu Met
 305 310 315 320
 Leu Met Leu Arg Gln Gly Leu Phe Leu Val Met Glu Asp His Ala Ile
 325 330 335
 Gln Leu Pro Leu His Glu Arg Ser Pro Gly Leu Asn Ile Val Thr Glu
 340 345 350
 Pro Gly Asp Gln His Gly Pro Arg Ile Trp Leu Arg Ala Gly Gly Lys
 355 360 365
 Ser Gln Cys Pro Arg Arg Thr Pro Ala Asn Pro Phe Ser Cys Pro Asp
 370 375 380
 Glu Gly Cys Ala Ser Leu Glu Asn Pro Arg Ser Gly Ser Ala Ser Ala
 385 390 395 400
 Ala Gly His His Ala Ser Gly Asn Ala Arg Arg Ala Ala Asp Pro
 405 410 415
 Val Ala Cys Arg Leu Gln Leu Phe Arg Thr Arg Lys Gly Gln Arg Thr
 420 425 430
 Val Ala Arg Asp Gly Gln Val Arg Gly Ile Arg Ala Ala Ser Arg Arg
 435 440 445
 Gly Ile Pro Gly Ser Arg Tyr Gly Val Leu Gly His Pro
 450 455 460

<210> 10913

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 10913

Ala Val Arg Pro Arg Ser Thr Ser Thr Asp Ile Arg Ser Arg Trp Ser
 1 5 10 15
 Leu Pro Arg Thr Ala Ser Ala Thr Arg Ser Ser Phe Pro Val Ser His
 20 25 30
 Ala His Asn Arg Lys Asp Ser Arg Met Thr Asn Thr Pro Ala Met Asn
 35 40 45
 Arg Tyr Ser Trp Tyr Gly Lys Leu Pro Ser Ala Gly Asp Phe Leu Gln
 50 55 60
 Arg Arg Phe Pro Asp Thr Leu Gln Arg Gln Trp Ser His Trp Phe Gln
 65 70 75 80
 Val Gly Leu Leu Ala Trp Gln Gln Glu Glu Gln Arg Ser Gly Glu Arg
 85 90 95
 Pro Phe Ser Lys Ala Pro Val Trp Asn Phe Val Val Pro Pro Met Leu
 100 105 110
 Gly Ser Gln Met Ile Gln Met Gly Cys Leu Leu Pro Gly Arg Asp Ser
 115 120 125
 Val Gly Arg His Tyr Pro Val Cys Leu Gln Leu Ser Phe Thr Pro Ala
 130 135 140
 Glu Trp Ser Ser Arg Leu Leu Gly Gln Ala Glu Ser Trp Tyr Gln Gln
 145 150 155 160
 Leu Gly Arg Leu Gly Leu His Ala Val Arg Asn Ser Tyr Ser Ala Ser
 165 170 175
 Gln Leu Asp Glu Met Leu Met Thr Ile Pro Ala Pro Gln Pro Val Glu
 180 185 190
 Pro Gln Lys Arg Ser Asp Ile Leu Asp Val Ile Gly Tyr Asp Asp Glu
 195 200 205
 Gly Gln Ser Thr Leu Gly Trp Pro Gln Ala Ala Glu Cys Phe Asp Pro
 210 215 220
 Leu Arg Gln Thr Ser Tyr Trp Trp Thr Asn Arg Cys Asp Gly Tyr Pro
 225 230 235 240
 Leu Tyr Thr His Val His Ser Gly Asn Phe Thr Gly Gln Leu Phe Thr
 245 250 255
 Leu Leu Phe Asp Pro Ala Gly Gly Ala Arg Pro Gly Arg His Gly Leu
 260 265 270

Tyr Pro Pro Met Phe Glu
275

<210> 10914

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 10914

Thr	Ser	Ser	Pro	Ser	Pro	Glu	Thr	Ser	Met	Val	Arg	Glu	Phe	Gly	Phe
1				5					10					15	
Val	Leu	Ala	Val	Lys	Ala	Asn	Val	Pro	Gly	Glu	His	Leu	Gln	Thr	His
			20					25					30		
Phe	Pro	Ala	Gln	Met	Lys	Val	Ala	Pro	Val	Ser	Lys	Ile	Arg	Asp	Leu
		35					40					45			
Val	Gln	Leu	Gln	Leu	Pro	Gly	Ile	Met	Leu	Arg	Ala	Met	Pro	Val	Ala
		50				55					60				
Pro	Pro	Gln	Ile	Pro	Trp	His	Ala	Gly	Tyr	Ser	Tyr	Phe	Glu	Leu	Glu
65					70					75				80	
Arg	Gly	Ser	Glu	Leu	Trp	His	Glu	Met	Asp	Lys	Ser	Gly	Ala	Phe	Ala
				85					90					95	
Leu	His	Leu	Ala	Gly	Glu	Phe	Pro	Gly	Leu	Asp	Met	Glu	Phe	Trp	Ala
			100					105					110		
Ile	Arg	Ser	Pro	Thr	Glu										
			115												

<210> 10915

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 10915

Trp	Phe	Val	Tyr	Ser	Trp	Gln	Arg	Tyr	Ala	Leu	Glu	Pro	Glu	Met	Arg
1				5					10					15	
Arg	Leu	Leu	Ala	Phe	Val	Leu	Ala	Leu	Asn	Thr	Ser	Tyr	Thr	Ile	Ala
			20					25					30		
His	Thr	Leu	Pro	Asp	Val	Asn	Thr	Phe	Ser	Gln	Gln	Gln	Ile	Phe	Glu
		35					40					45			
Asn	Trp	Val	Gln	Asn	Arg	Cys	Ile	Gly	Lys	Ile	Ala	Asp	Ser	Ala	Thr
		50				55					60				
Leu	Lys	Asn	Asp	Ala	Lys	Ala	Ser	Ala	Ala	Ala	Trp	Leu	Glu	Val	Ser
65					70				75					80	
Asn	Leu	Pro	Ala	Glu	Asn	Phe	Glu	Lys	Ala	Asp	Glu	Val	Ile	Asn	Ser
			85					90					95		
Leu	Leu	Lys	Gln	Lys	Leu	Gly	Gly	Thr	Ala	Pro	Ala	Asn	Tyr	Glu	Val
			100					105					110		
Leu	Lys	Cys	Ser	Leu	Ile	Ser	His	Ser	Asp	Ala	Ile	Arg	Gln	Leu	Asn
		115					120					125			
Val	Gln	Lys													
			130												

<210> 10916

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 10916

Thr	Phe	Cys	Lys	Ser	Tyr	Thr	Leu	Lys	Ile	Gln	Gly	Val	Tyr	Met	Ala
1				5					10					15	
Ser	Pro	Ser	Asn	Val	Ala	Pro	Gly	Tyr	Cys	Val	Val	Gln	Gln	Pro	Gly
			20					25					30		

Thr Leu Asp Phe Gln Ala Arg Gln Leu Phe Gly Thr Ala Arg Asn Glu
 35 40 45
 Lys Ser Glu Tyr Phe Met Gln Leu Asn Lys Asp Thr Ala Trp Leu Lys
 50 55 60
 Pro Gly Gln Ile Leu Ile Val Ala Asp Pro Leu Gly Asp Asn Gln Thr
 65 70 75 80
 Gln Gln Ile Asn Ser Leu Ala Ile Ala Lys Lys Lys Val Thr Asn Ala
 85 90 95
 Leu Ala Thr Leu Asp Gly Ala Thr Ala Glu Phe Leu Lys Asn Asn Tyr
 100 105 110
 Asp Asn Ile Lys Ala Ile Thr Gly Trp Gly Asp Thr Ile Val Gly Gly
 115 120 125
 Val Ser Gly Thr Gly Glu Ser Tyr Phe Lys Gln Ile Glu Asn Ile Leu
 130 135 140
 Ile Lys Ile Glu Ala Thr Tyr Gln Asn Gln Tyr Arg Thr Gln Gly Ala
 145 150 155 160
 Leu Phe Gly Gln Gln Phe Tyr Ala Glu Arg Asn Ala Leu Phe Ala Gln
 165 170 175
 Leu Lys Pro Leu Leu Asn Lys Ile Thr Lys Lys Gln Leu Lys Phe Lys
 180 185 190
 Asp Tyr Ala Asp Leu Lys Arg Ala Leu Gly Leu Ser Thr Lys Ser Ile
 195 200 205
 Val His Glu Trp Ser Thr Val Gly Ile Gly Ala Ile Pro Gly Tyr Ser
 210 215 220
 Thr Tyr Ile Asp Arg Ala Ala Arg Ile Ser Ser Tyr Leu Lys Ala Gly
 225 230 235 240
 Gly Trp Val Ala Leu Gly Phe Ser Phe Met Asn Thr Ser Asn Glu Val
 245 250 255
 Tyr His Ala Cys Thr Thr Gly Arg Glu His Glu Cys Ser Arg Val Ala
 260 265 270
 Val Thr Glu Tyr Ser Lys Phe Gly Gly Gly Val Ala Gly Ala Ala Leu
 275 280 285
 Gly Ser Ser Leu Ala Ala Pro Val Cys Leu Ala Leu Gly Val Pro Thr
 290 295 300
 Ala Gly Thr Gly Thr Phe Met Val Trp Ser Ser Gly Arg Thr Val Gly
 305 310 315 320
 Ala Gly Gly Lys Thr Lys Ile Val Gly
 325

<210> 10917

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 10917

Gln Ala Leu Thr Gln Leu Asn Glu Val Arg Asn Gln Arg Leu Ser Ile
 1 5 10 15
 Ile Tyr Cys His Val Tyr Ala Leu Ser Leu Asp Glu Gly Asp Asp Ser
 20 25 30
 Glu Thr Gly Ala Ala Gly Phe Thr Ser Ala Val Leu Thr Thr Gly Ser
 35 40 45
 Ser Gly Gly Thr Cys Phe Phe Thr Ser Gly Ser Cys Gly Asp Cys Ser
 50 55 60
 Gly Glu Ala Ala
 65

<210> 10918

<211> 100

<212> PRT

<213> Enterobacter cloacae

<400> 10918

```

Arg Pro Gly Gly Asp Phe Pro Val Gln Gly Gly Asp Leu Leu Gly Lys
1          5          10          15
Met Leu Arg Lys Pro Arg Asp Leu Phe Leu Leu Phe Thr Leu Asn Arg
          20          25          30
Val Ala Lys Leu Val Glu Val Gly Leu Arg Phe Ser Lys Val Ile Leu
          35          40          45
Asn Asp Gly Ala Ala Gly Ala Glu Glu Leu Pro Val Lys Ala Arg Phe
          50          55          60
Gln Arg Gly Val Ala His Gln Arg Cys Gly Leu Arg Pro Gln Arg Asp
65          70          75          80
Gln Leu Ile Leu Gln Pro Leu Lys Lys Gln Cys Cys Phe Gln Gly Ala
          85          90          95
Leu Gln Trp
          100

```

<210> 10919

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 10919

```

Cys His Lys Ala Phe Leu Ser Leu Pro Ser Ala Asn Leu Ser Lys Ser
1          5          10          15
Ala Phe Phe His Ala Tyr Cys Leu Phe Ile Val Phe Ser Thr Ile Ile
          20          25          30
His Lys His Lys Arg Lys Asn Cys His Lys Leu Leu Ile Gly Phe Leu
          35          40          45
Val Phe Ala Pro Lys Met Asp His Pro Ser Gln Lys Glu Thr Glu Cys
          50          55          60
Thr Thr Pro His Arg Leu Ser Pro Pro Leu Leu Val Asp Leu Cys Ser
65          70          75          80
Leu Leu Phe Ser Ala
          85

```

<210> 10920

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10920

```

Arg Pro Trp Arg Leu Ser Ser Gly Val Met Pro Leu Val Ile Ser Ser
1          5          10          15
Gly Ala Gly Ser Gly Ala Gln Asn Ala Val Ser Thr Gly Val Met Gly
          20          25          30
Gly Met Val Thr Ala Thr Val Leu Ala Ile Phe Phe Val Pro Val Phe
          35          40          45
Phe Val Val Val Arg Arg Arg Phe Ser Arg Lys Asn Glu Asp Val Glu
          50          55          60
His Asn His Ser Val Glu His His
65          70

```

<210> 10921

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10921

```

Pro Pro Glu Ala Gly Val Leu Phe Cys His Ser Arg Asn Leu Ala Arg
1          5          10          15
Glu Arg Ser Asn Pro Leu Cys Ala Thr Leu Asn Ile Leu Thr Arg Tyr

```

```
<210> 10922
<211> 346
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10923
<211> 109
<212> PRT
<213> Enterobacter cloacae
```

<400> 10923

```

Thr Thr Leu Pro His Val Arg Ser Arg Gly Arg Cys Leu Thr Val Cys
1          5          10          15
Lys Asn His His Ala Leu Gln Phe Ser Arg Leu Gly Lys Phe Trp His
          20          25          30
Ile Leu Pro Lys Pro Ile Val His Asp Glu Met Thr Gln Tyr Leu Phe
          35          40          45
Ser Phe Leu Gln His Lys Ser Arg Val Pro Leu Leu His Ile Gly Glu
          50          55          60
Trp Leu Lys Pro Glu His Cys Asp Asp Met Ile Lys Arg Leu Ala Phe
65          70          75          80
Gly Ile Phe Pro Asp Ser Tyr Phe Lys Gly Tyr Ser Tyr Asp His Arg
          85          90          95
Tyr Trp Arg Arg Gly Leu Tyr Arg Gln Gln Tyr Cys
          100          105

```

<210> 10924

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 10924

```

Pro Asn Glu Lys Asn Met Phe Lys Phe Leu Asn Ala Arg Tyr Arg His
1          5          10          15
Ile Thr Gly Arg His Asn Ile Pro Tyr Ala Ser Leu Pro Val Thr Arg
          20          25          30
Asp Leu Val Ala Val Asp Ser Ile Val Ile Pro Cys Thr Gly Ala Asp
          35          40          45
Phe Val Glu Glu Ala Leu Leu Ser Ala Thr Phe Ala Glu Arg Tyr Ala
          50          55          60
Thr Asp Val Ser Glu Ile Val Ile Val Ser Asp Gln Pro Glu Ser Ala
65          70          75          80
Phe Gly Glu Leu Pro Leu Lys Thr Arg Val Val Thr Leu Thr Leu Pro
          85          90          95
Lys Arg Glu Glu Gly Tyr Arg Tyr Lys Gln Ile Tyr Leu Ser Arg Leu
          100          105          110
Val Lys Leu Asn Ala Pro Leu Gln Ala Arg Gly Glu Gly Val Leu Met
          115          120          125
Ile Asp Ser Asp Leu Asn Leu Leu Lys Met Pro Glu Ile Asn Met Ala
          130          135          140
Asp Met His Ile Tyr Ser Ser Phe Arg Gln Gly Lys Met Ile Ala Lys
145          150          155          160
Leu Asp Gly Ala Pro Ala Glu Lys Val Pro Ala Tyr Tyr Lys Glu Thr
          165          170          175
Val Arg Pro Tyr Leu Val Asp His Val Asn Gly Ala Phe Leu Ala Ala
          180          185          190
Thr Lys Lys Thr Trp Arg Arg Ile Cys Pro Leu Trp Leu Thr Leu Phe
          195          200          205
Gln Asp Thr Trp Glu Leu Met Asp Asp Thr Gln Pro Pro Thr Asp Gln
          210          215          220
Leu Pro Leu Ala Ala Leu Leu Asp Met Leu Asp Val Lys Thr Val Asn
225          230          235          240
Leu Gly Asp Trp Met Asn Trp Pro Val Ser Lys Lys Ile Gly Gly Gln
          245          250          255
Glu Ala Val Val Pro Lys Glu Val Ile Gly Ala His Gly Gly Phe Pro
          260          265          270
Leu Ser Glu Trp Gln Lys Tyr Leu Glu Ser Pro Asp Asn Lys Leu Leu
          275          280          285
Phe Lys Gly Gln Asp Tyr Thr Arg Lys Val Arg Tyr Leu Thr Asp Glu
290          295          300

```

Glu Lys Lys Asn Gln
305 310

<210> 10925
<211> 82
<212> PRT
<213> Enterobacter cloacae

<400> 10925
Phe Arg His Gly Ser Ser Val Glu Met Gln Asn Ala Lys Asn Pro Ala
1 5 10 15
Val Ala Gly Phe Phe Asn Thr Arg Arg Leu Lys Leu Phe Asp Phe Ser
20 25 30
Phe Phe Val Gln Tyr Val Leu Ala Tyr Asn Trp Ile Glu Phe Phe Gln
35 40 45
Phe Gln Phe Phe Arg Leu Ser Thr Phe Val Leu Arg Gly Gly Val Glu
50 55 60
Val Thr Cys Thr Ser Arg Arg Asn Gln Leu Asp Phe Leu Arg Glu Tyr
65 70 75 80
Leu

<210> 10926
<211> 65
<212> PRT
<213> Enterobacter cloacae

<400> 10926
Trp Tyr Val Ala Lys Val Thr Met Ser Gly Ile Asn Val Tyr Gly Glu
1 5 10 15
Arg Trp Ser Gln Asn Ile Ser Thr Leu Ser Pro Arg Arg Arg Asn Ala
20 25 30
Thr Cys Tyr Arg Tyr Thr Asn Leu Ile Ser Pro Glu Cys Cys Ile Lys
35 40 45
Ile Ala Gln Tyr Glu Val Phe Ile Tyr Asp Ala Pro Leu Ile Thr Asp
50 55 60

65

<210> 10927
<211> 61
<212> PRT
<213> Enterobacter cloacae

<400> 10927
Pro Val Ser Ser Ala Met Ala Ser Cys Val Glu Ser Ile Ala Asp Leu
1 5 10 15
Asn Ile Asn Ala Pro Ala Gly Leu Ala Ser Gln Ser Gly Ala Asp Asn
20 25 30
Thr Val Arg Met Cys Gln His His Gly His Thr Tyr Phe Ser Tyr Gly
35 40 45
Ala Ala Gly Arg Val Asn Ala Ser Ala Leu Pro Gly
50 55 60

<210> 10928
<211> 61
<212> PRT
<213> Enterobacter cloacae

<400> 10928
Leu Val Gly Leu Ile Thr Arg Arg Ser Ser Val Gln Ile Arg Pro Pro

1		5		10		15
Gln	Pro	Thr	Leu	Lys	Thr	Ile
		20		25		30
Tyr	Leu	Ala	Phe	Val	Lys	Met
		35		40		45
Tyr	Pro	Arg	Arg	Ala	Ser	Val
		50		55		60

<210> 10929

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 10929

Asn	Cys	Ser	Asp	Arg	His	Val	Arg	Asp	Lys	Ala	Glu	Glu	Lys	Gly	Thr
1				5				10					15		
Thr	Lys	Asn	Asn	Gln	Asp	Ile	Gly	Leu	Pro	Gly	Lys	Trp	Cys	Thr	Gly
		20		25				30							
Leu	Ser	Glu	Ser	Thr	Leu	Arg	Glu	Gly	Arg	Leu	Ser	Met	Met	His	His
		35		40				45							
Arg	Gln	Pro	Ala	Leu	Ile	Met	Val	Met	Tyr	His	Trp	Val	Thr	Arg	Gln
		50		55				60							
Thr	Ser	Asn	Ala	Ser	Asn	Ile	Lys	Leu	Phe	Phe	Lys	Lys	Arg	Gln	Glu
65				70				75						80	
Arg	Ser	Leu	Thr	Phe											
				85											

<210> 10930

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 10930

Phe	Met	Lys	His	Leu	Lys	Met	Ile	Ala	Ala	Met	Leu	Leu	Leu	Thr	Pro
1				5				10					15		
Leu	Thr	Ser	Phe	Ser	Gln	Glu	Thr	Asp	Ser	Val	Glu	Ala	Leu	Asn	Lys
		20		25				30							
Tyr	Ser	Thr	Ala	Leu	Thr	Glu	Leu	Phe	Met	Lys	Glu	Leu	Gln	Lys	Ser
		35		40				45							
Gln	Gln	Ala	Lys	Asn	Pro	Gly	Gly	Met	Asp	Leu	Val	Ala	Ala	Asn	Asp
		50		55				60							
Ala	Val	Ala	Ser	Ala	Leu	Ser	Lys	Lys	Phe	Phe	Ile	Phe	Lys	Pro	Ala
65				70				75						80	
Asp	Glu	Thr	Ser	Ile	Lys	Thr	Ser	Ala	Glu	Lys	Leu	Lys	Ala	Leu	Lys
			85					90					95		
Asp	Asp	Thr	Glu	Ala	Leu	Glu	Lys	Gly	Tyr	Thr	Ile	Ile	Gln	Pro	Asp
		100						105					110		
Asn	Ile	Gly	Ser	Asn	Asn	Ile	Ser	Tyr	Lys	Val	Thr	Thr	Gly	Ser	Arg
		115						120				125			
Ile	Cys	Phe	Val	Gln	Val	Thr	Arg	Ser	Lys	Ser	Ser	Ser	Asn	Thr	Arg
		130				135					140				
Thr	Val	Ala	Val	Asp	Ser	Ile	Asp	Cys	Thr	Gly	Pro	Glu	Gln	Lys	
145				150				155						160	

<210> 10931

<211> 140

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222>(13)

<220>

<221>UNSURE

<222>(15)

<220>

<221>UNSURE

<222>(36)

<400> 10931

Arg	Lys	Ile	Ile	Gly	Tyr	Phe	Ser	Asn	His	Cys	Ser	Xaa	Arg	Xaa	Gly
1				5					10					15	
Trp	Tyr	Ala	Tyr	Gly	Phe	Ile	Asn	Thr	Arg	Glu	Leu	Ser	Ala	Leu	Arg
			20				25						30		
Lys	Glu	Met	Xaa	Leu	Tyr	Val	Asp	Arg	Met	Glu	Ala	Ala	Glu	Leu	Asp
		35					40					45			
Leu	His	Ala	Ile	Arg	Ser	Val	Ala	Glu	His	Arg	Leu	His	Gly	Ala	Gly
	50					55					60				
Lys	Gln	Phe	Ala	Asp	Leu	Tyr	Ser	Arg	Ile	Asp	Gly	Ala	Thr	Val	Thr
65					70					75					80
Leu	Thr	Pro	Glu	Asp	Gln	Leu	Leu	Leu	Ala	Thr	Met	Pro	Phe	Asn	Ile
				85					90					95	
Gln	Asp	Val	Glu	Asp	Ile	Val	Asn	Glu	Arg	Gly	Pro	Lys	Thr	Ile	Ser
			100					105					110		
Gly	Arg	Pro	Phe	Trp	Glu	Val	Glu	Pro	Gly	Pro	His	Asn	Tyr	Glu	Tyr
		115					120					125			
Gly	Pro	Gln	Tyr	Pro	Tyr	Phe	Pro	Asp	Gln	Arg					
	130					135					140				

<210> 10932

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 10932

Met	Ser	Cys	Tyr	Gly	Asp	Lys	Met	Phe	Arg	His	Asn	Thr	Glu	Arg	Glu
1				5					10					15	
Trp	Leu	Ile	His	His	Leu	Gln	Glu	Leu	Tyr	Met	Arg	Lys	Phe	Lys	Tyr
			20					25					30		
Ile	Ile	Cys	His	Gln	Cys	Glu	Gly	His	Gly	Thr	Met	Glu	Asn	Pro	Ala
		35					40					45			
Phe	Glu	Asn	Gly	Phe	Thr	Gln	Ser	Glu	Met	Ala	Glu	Trp	Glu	Pro	Glu
	50					55					60				
Met	Arg	Glu	Lys	Tyr	Phe	Ala	Gly	Ala	Phe	Asp	Val	Arg	Cys	Asp	Val
65				70					75						80
Cys	Ala	Gly	Asp	Gly	Lys	Leu	Ser	Val	Pro	Asn	Val	Ala	Ala	Met	Ser
				85					90					95	
Phe	Ser	Glu	Arg	Arg	Val	Leu	Ala	Ala	Arg	Arg	Arg	Asp	Glu	Arg	Leu
			100					105					110		
Gln	Ala	Ala	Asp	Glu	Arg	Leu	Ser	Arg	Gln	Glu	Arg	Ala	Met	Gly	Tyr
		115					120					125			

<210> 10933

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 10933

Gly Ala Thr Ala Lys Met Lys Met Thr Lys Pro Lys Pro Val Ser Arg
 1 5 10 15
 Met Lys Arg Pro Phe Ile Ser Glu Leu Ala Glu Leu Gly Leu Ser Gly
 20 25 30
 Glu Ile Leu Ser Ile Arg Thr Asp Gly Met Gln Gly Thr Leu Ile Pro
 35 40 45
 Asp Leu Thr Ala Gly Val Ser Glu Ala Gly Arg Val Lys Thr Gly Asn
 50 55 60
 Trp Val Ile Ser Asp Lys Arg Thr Phe Asp His Val Val Leu Cys Val
 65 70 75 80
 Glu Arg Gln Asp Glu Asn His Asp Val Phe Val Gly Lys Phe Ile Gln
 85 90 95
 Leu His Val Ala Ala Asn Lys Ser Leu Lys Ile Val Glu Met Gly Asp
 100 105 110
 Val Lys Leu Val Ala Ile Thr Ser Ser Ile Pro Thr Thr Phe Asn Gly
 115 120 125
 Gly Ile Arg Arg Phe Lys Gly Val Thr Tyr Val Ser Leu Ser Gln Thr
 130 135 140
 Ala Gln Thr Thr Ile Asp Phe Pro Lys Arg Ile Tyr Lys Glu Gly Gln
 145 150 155 160
 Glu Cys Thr Ser Val Thr Ser Pro Asp Gln Gly Pro Phe Ala Arg Asp
 165 170 175
 Val Arg Leu Asn Cys Tyr Gly Arg Cys Val Val Thr Gly Val Arg Ser
 180 185 190
 Pro Trp Arg Thr Glu Ala Ala His Leu Thr Pro Arg His Glu Glu Gly
 195 200 205
 Ile Pro Asp Val Thr Asn Gly Ile Leu Leu Arg Arg Asp Ile His Thr
 210 215 220
 Leu Phe Asp Asn Asp His Cys Ala Ile Asn Pro Asp Thr Met Lys Ile
 225 230 235 240
 Tyr Phe Ser Arg Glu Ala Arg Glu Leu Asp Asp Asp Leu Leu Lys Trp
 245 250 255
 His Gly Asp Glu Ile Glu Thr Thr Arg Met Gln Val Pro Val Asn Ile
 260 265 270
 Glu Asn Leu Arg Ile Arg Trp Gln Lys Phe Lys Ala Lys Asp Arg Gln
 275 280 285
 Arg Lys
 290

<210> 10934

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 10934

Tyr Cys Arg Ala Phe Val His Trp Lys Ser Tyr Arg Glu Ala His Met
 1 5 10 15
 Asp Arg Ile Lys Tyr Leu Lys Trp Ile Ala Glu Glu Ser Pro Ser Thr
 20 25 30
 Ala Gln Gln Leu Val Ala Trp Leu Asn Arg Ala Arg His Tyr Thr Pro
 35 40 45
 Asp Met Lys Glu His Gln Ala Gly Val Gln Ile Gln Glu Lys Gly Ile
 50 55 60
 Val Val Gly Leu Arg Gln Ser Thr Asn Arg Tyr His Gly Asp Cys Leu
 65 70 75 80
 Thr Ile His Val Val Arg Leu Pro Glu Glu Ile Gln Asn Lys Gly Trp
 85 90 95
 Phe Lys Ser Phe Leu Lys Leu Cys Cys Glu Ser Asn Pro Trp Cys Asp
 100 105 110
 Val Val Ile Glu Asp Val Lys Asn Pro Tyr Leu Leu Ser Phe Cys Lys
 115 120 125

Lys Leu Asn Phe Thr Val Leu Asp Glu Phe Tyr Pro Asn Thr Tyr Ile
 130 135 140
 Val Asn Thr Asp Ala Ile Met Ser Leu Pro Ile Pro Pro Leu Gly Arg
 145 150 155 160
 Tyr Glu Thr Tyr Leu Tyr
 165

<210> 10935

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 10935

Trp Val Gln Lys Arg Gln Leu Leu Ala Leu Gly Val Ser Tyr Pro Pro
 1 5 10 15
 Lys Ser Gly Trp Ile Glu Arg Leu Ile Gly Thr Glu Val Ser Asp Glu
 20 25 30
 Gln Tyr Glu Arg Phe Leu Gly His Ser Thr Ser Lys Gln Ala Glu Gln
 35 40 45
 Ile Leu Arg Gly Glu Gln Pro Ala Lys Gly Leu Gln Tyr Ala Lys Arg
 50 55 60
 Ala Lys Lys Leu Ala Ser Glu Arg Lys Ala Thr Ile Asp Leu Asp Asn
 65 70 75 80
 Glu His Leu Ser Glu Ile Glu Lys Tyr Arg
 85 90

<210> 10936

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 10936

Lys Pro Glu Ala Val Ile Thr Gln Thr Gly Pro Tyr Ser Val Arg Ile
 1 5 10 15
 Val Met Asp Asp Lys Glu Gln Phe Thr Asn Leu Val Ala Lys His Ala
 20 25 30
 Ser Gly Leu Thr Glu Glu Gln Leu Ala Gly Tyr Asp Ala Cys Ser Leu
 35 40 45
 Asp Gly Glu Cys Val Thr Pro Ser Tyr Glu Val Phe Arg Gly Tyr Arg
 50 55 60
 Thr Arg His Thr Leu Asp Glu Phe Leu Glu Met Ala Ile Ser Leu Asn
 65 70 75 80
 Ala Ile His Pro Asp Glu Tyr Leu Thr Asp Met Leu Leu Lys Pro His
 85 90 95
 Glu Val Ile Gly Ala Leu Ala Asp Glu Gly Asp Gln Leu Asn Asn Ala
 100 105 110
 Thr Pro Val Tyr Phe Phe Pro Asp Thr Gly Val Tyr Ala Ala Ala Val
 115 120 125
 Ser Glu Thr Arg Val Leu Asp Ala Trp Leu Cys Trp Pro Cys Tyr Pro
 130 135 140
 Ala Asn Trp
 145

<210> 10937

<211> 136

<212> PRT

<213> Enterobacter cloacae

<400> 10937

Leu Phe Cys Ala Leu Leu Ala Gly Gly Ile Val Leu Ala Cys Leu Asn
 1 5 10 15

Ile Thr Gln Glu Gly Asn Leu Met Ala Thr Glu Ile Glu Val Met Thr
 20 25 30
 Val Ala Glu Leu His Ala Gln Leu Gln Leu Val Asp Glu Gly His
 35 40 45
 Gly Asp Ile Pro Val Cys Ala Ser Asp Leu Arg Ala Arg Tyr Pro Phe
 50 55 60
 Lys Ala Tyr Thr Val Leu Ser Thr Ala Gly Tyr Thr Glu Ala Leu Leu
 65 70 75 80
 Ile Asn Val Trp Pro Asp Ala His Phe Thr Arg Lys Glu Pro Leu Pro
 85 90 95
 Thr Asn Trp Gly Lys Asn Arg Val Ala Glu Trp Asn Ser Asp Ala Asp
 100 105 110
 Ala Val Arg Gln Ser Cys Gly Ala Phe Ala Asp Asn Pro Gln Ser Arg
 115 120 125
 Gln Met Thr Gly Asp Asn Leu
 130 135

<210> 10938

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 10938

Val Met Ile Ser Ser Ser Leu Leu Trp Cys Ser Phe Ser Pro Ile Thr
 1 5 10 15
 Gln Gln Val Met Asn Thr Arg Pro Val Met Asp Ala Thr Glu Thr Glu
 20 25 30
 Glu Leu Glu Lys Ile Arg Lys Lys Ala Met Asp Glu Val Thr Ser Ala
 35 40 45
 Leu Gln Ala Leu Glu Asn Lys Phe Pro Gly Ile Thr Glu Gly Ala Ala
 50 55 60
 Ala Leu Ala Gly Ser Gly Val Gly Ala Ala Ala Ser Phe Gly Ala Leu
 65 70 75 80
 Tyr Thr Leu Gly Thr Thr Gly Val Ser Ala Ala Gly Ile Thr Ser Gly
 85 90 95
 Leu Ala Thr Ala Gly Ser Ile Val Gly Gly Gly Met Val Ala Gly Ile
 100 105 110
 Ala Val Leu Ala Ala Pro Val Ala Val Leu Gly Ile Gly Gly Tyr Ala
 115 120 125
 Val Val Lys His Arg Lys Asn Ala Lys Leu Thr Ala Ala Leu Ser Gln
 130 135 140
 Ala Ile Gln Lys Leu Tyr Glu Val Gln Glu Arg Leu Met Ser Asn Ala
 145 150 155 160
 Glu Tyr Phe Lys Ala Glu Ile Ala Gly Ile Lys Ala Thr Ile Asp Met
 165 170 175
 Leu Thr Lys Lys Ala Pro Lys Gly Ser Leu Val Ala Val Arg
 180 185 190

<210> 10939

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 10939

Arg Ala Lys Lys Asp Gly Phe Asn Tyr Met Asn Lys Thr Ala Leu Val
 1 5 10 15
 Met Ile Leu Gly Ile Leu Gly Cys Gly Lys Ala Phe Ala Ala Thr Glu
 20 25 30
 Leu Gln Leu Gln Gln Lys Arg Val Met His Phe Cys Ala Asn Ala Ser
 35 40 45
 Leu Pro Leu Leu Ile Ala Gly Thr Thr Tyr Ala Asn Thr Ser Asp Asn

50		55		60	
Gly	Arg	Pro	Glu	Lys	Glu
65				70	Arg
Ser	Ser	Thr	Ala	Tyr	Ser
			85		Met
Met	Ser	Val	Val	Glu	Asp
			100		Ile
Gln	Lys	Glu	Val	Arg	Arg
			115		Leu
Val	Thr	Trp	Ala	Ser	Lys
			130		Thr
Phe	Asn	Arg	Phe	Glu	Ser
145				150	

<210> 10940

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10940

Met	Gln	Thr	Gln	Lys	Glu	Ile	Thr	Val	Gly	Gln	Ile	Trp	Glu	Glu	Val
1				5					10				15		
Asp	Pro	Arg	Leu	Ile	Arg	Lys	Val	Arg	Val	Val	Glu	Val	Ala	Ser	Leu
			20					25					30		
Glu	Gly	Pro	Lys	Gly	Ile	Leu	Ile	Glu	Asn	Val	Glu	Ser	Gly	Arg	Lys
			35					40				45			
Asn	Trp	Ala	Ser	Ser	Ser	Arg	Phe	Asn	Gly	Lys	Arg	Gly	Gly	Tyr	Arg
			50			55					60				
Leu	Ile	Ser													
65															

<210> 10941

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 10941

Ala	Thr	Ala	Ser	Cys	Ala	Phe	Thr	Thr	Thr	Thr	Ala	Arg	Lys	Leu
1				5					10				15	
Pro	Val	Ser	Ile	Cys	Leu	Lys	Met	Pro	Gln	Pro	Lys	Pro	Leu	Trp
			20					25				30		Ser
Ser	Val	Asn	Cys	Ile	Val	Met	Ala	Leu	Ser	Gly	Ser	Leu	Lys	Leu
			35				40				45			Ser
Val	Arg	Ala	Leu	Pro	Val	Ala	Trp	Arg	Leu	Leu	Pro	Pro	Ser	Thr
			50			55					60			Ala
Leu	Thr	Ser	Lys	Ile	Thr	Leu	Asn	His	Thr	Pro	Ala	Met	Pro	Gly
65				70					75					Phe
Phe	Leu	Val	Ala	Ile	Arg	Tyr	Gln	Glu	Gly	Gly	Gly	Gln	Lys	Gly
			85					90					95	Phe
Gly	Asn	Leu	Arg	Lys	Gln	Arg	Asp	Val	Asn	Ser	Asp	Val	Ser	Leu
			100				105					110		Leu
Lys	Ala	Gly	Asn	Gly	Phe	Phe	Ser	Gly	Cys	Trp	Leu	Lys	Pro	Val
			115				120					125		Phe
Arg	Ala	Leu	Tyr	Gln	Gln	His	Ala	Pro	Leu	Ile	Tyr	Val	Thr	Phe
			130			135					140			Ala
Thr	Tyr	Glu	Gly	Thr	Gly	Ser	Gly	Arg						
145						150								

<210> 10942

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 10942

```

Thr Ser Leu Phe Glu Pro Gly Tyr Ser Asp Pro Phe Pro Gly Pro Phe
1          5          10          15
Ile Lys Leu Ser Leu Ala Ile Pro Ile Thr Leu Phe Phe Leu Leu Thr
          20          25          30
Lys Pro Val Ala Ile Asn Ser Glu Phe Ser Val Ser Asn Lys Glu Pro
          35          40          45
Leu Tyr Phe Gly His Asp Asn Ile Pro Val Cys Leu Glu Leu Phe Arg
          50          55          60
Gln Thr Cys Gln Gly
65          70

```

<210> 10943

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10943

```

Val Arg Leu Leu Arg Lys Leu Ile Ser Phe Gly Arg Thr Arg Lys Thr
1          5          10          15
Cys Gly Gly Asp Phe Lys His Thr Asp Phe Gly Lys Ile Ile Leu Pro
          20          25          30
Phe Thr Leu Leu Arg Arg Leu Glu Cys Ala Leu Glu Ser Thr Arg Glu
          35          40          45
Ala Ser Leu Asp Ser Gln Pro Ala Thr Ile Glu Phe Leu Glu Ala Glu
          50          55          60
Phe Ser Val Asp Phe Asp Ala Leu Leu Ser
65          70          75

```

<210> 10944

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 10944

```

Arg Asp Glu Asp Met Gln His Val Thr Arg Leu Thr Pro Arg Trp Tyr
1          5          10          15
Asp Gly Leu Ala Phe Thr Phe Leu Ser Asp Arg His Tyr Val Leu Ile
          20          25          30
Ile Arg Glu Glu His Gly Met Ser Asn Glu Val Thr Lys Gly Met Leu
          35          40          45
Ser Ala Gln Val Arg Gly Gly Ile Val Arg Asp Cys Ser Val Leu Cys
          50          55          60
Ser Pro Val Gly
65

```

<210> 10945

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 10945

```

Gly Lys His Met Ser Gln Ser Pro Tyr Asp Asp Glu Phe Arg Ala Ile
1          5          10          15
Arg Tyr Ile Gln Leu Arg Gly Gln Asp Ile Ala Asn Ala His Glu Thr
          20          25          30
Ile Ser Ser Asp Ile Glu Ser Leu Lys Ala Gln Leu Thr Gly Leu Ile
          35          40          45
Ser Gly Thr Glu Leu Asp Glu Ala Glu His Leu Ala Leu Lys Glu His

```

50	55	60
His Leu Arg Glu Met Thr Pro Ser Asp Thr Ala Met His Ser Thr Ser		
65	70	75
Leu Lys Thr Ile Tyr Ser Glu Ala Asn Gln Arg Val Cys Gly Asp Ile		80
	85	90
Gly Leu Thr Thr Ile Leu Ser Thr Asp Asp Leu Ala Val Val Asp Ala		95
	100	105
Arg Ile Gln Asn His Ile Lys Glu Phe Asn Asp Arg Tyr Ala Leu Asp		110
	115	120
Ala Trp Asp Tyr Ala Ile Ala Cys Gly Cys Gly Leu Ile Ala Ser Met		125
	130	135
Leu Asp Leu Leu Cys Val Arg Ala Pro Pro Lys Pro Thr Val Ser Phe		140
145	150	155
Thr Ala Glu Val Asp Gly Ile Phe Asn Lys Gln Val Gln Lys Ala Phe		160
	165	170
Asn Ala Ile Leu Pro Glu Asp Leu Ser Lys Lys Leu Ser Glu Met Phe		175
	180	185
Pro Ile Gly Ala Pro Asp Ser Ser Ile Thr Ser Asp Leu Val Gly Ala		190
	195	200
Ala Gly Gly Val Leu Ser Pro Thr Asn His Arg Leu Arg Ala Leu Ser		205
	210	215
His Asp Pro Ile Leu Gly Ile Ile Ile Gly Ile Lys Asp Met Leu Asn		220
225	230	235
Gly Thr Cys Thr Val Val Gln Asn Gly Gln Ile Val Val Tyr Pro Ser		240
	245	250
Ser Lys Gly Val Thr Asp Glu Thr Asn Ile Phe Arg Leu Ile Ala Arg		255
	260	265
Met Phe Gly His Leu Ala Ser Asp Val Asn Ala Pro Ser Ala Lys Gly		270
	275	280
Asn Arg Gly Met Gly Leu Pro Ala Pro Phe Met Gly Leu Leu Arg Met		285
	290	295
Leu Glu Gly Ile Pro Val Gly Ser Ser Asn Phe Gly Lys Gln Ile Glu		300
305	310	315
Tyr Met Tyr Val Asn Gly Tyr Asp Phe Arg Gln Phe Ile Val Thr Ser		320
	325	330
Ile Pro Met Thr Ile Met Glu Val Leu Met Arg Val Phe Tyr Val Ala		335
	340	345
Lys Gln Val Ser Leu Gly Lys Gly Ala Phe Gly Glu Thr Leu Leu Asp		350
	355	360
Thr Met Pro Leu Arg Leu Asn Pro Arg Phe Arg Met Met Leu Ala Leu		365
	370	375
Gly Tyr Gly Thr Ser Ser Ala Val Asn Ala Gly Lys Met Tyr Ile Thr		380
385	390	395
Gly Asn Ile Leu Asn Ala Asn Tyr Ala Ser Trp Met Gly Leu Ala Trp		400
	405	410
Asn Gly Phe His Ser Leu Lys Trp Ser Leu Tyr Gln Arg His Leu Lys		415
	420	425
Leu Trp Ala Gly Ile Glu Lys Ala Glu Leu Glu Arg Leu Gln Asn Asn		430
	435	440
Ile Asp Ser Ile Glu Ala Leu Asn Ile Arg Ala Gly Asn Leu Pro Val		445
	450	455
		460
Lys		
465		

<210> 10946

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 10946

Tyr Asp Arg Leu Lys Pro Arg Ile Ala Leu Gly Leu Ser Met Asn Lys

6031

1		5		10		15
Gln	Pro	Leu	Val	Met	Lys	Ile
		20		25		30
Gln	Gln	Val	His	Gln	Gly	Glu
		35		40		45
Gly	Val	Met	Leu	Gly	Asn	Phe
		50		55		60
Ile	Lys	His	Val	Gly		
65				70		

<210> 10947

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 10947

Val	Gln	Ile	Val	His	Gln	Arg	Cys	Asp	Phe	Thr	Ala	Phe	Lys	Gln	Leu
1			5					10					15		
Ala	His	Leu	Asn	Ala	Trp	Leu	Lys	Met	Asn	Gly	Gln	Gly	Gly	Arg	Ile
		20					25						30		
Tyr	Thr	His	Lys	Ile	Gly	Ile	Lys	Gln	Arg	Met	His	Cys	Trp	Ser	His
		35				40						45			
Gln	Asp	Ala	Ile	Arg	Arg	Ile	Val	Pro	Gly	Ser	Met	Phe	Asn	Val	Cys
	50					55					60				
Arg	Ile	Gln	Asp	Thr	Thr	Ile	Asn	Pro	Thr	Gly	Tyr	Arg	Thr	Thr	Ala
65					70				75					80	
Ser	Glu	Ile	Leu	Asp	Glu	Gln	Ser	Phe	Lys	Phe	Thr	Leu	Cys	His	Ala
			85					90						95	
Thr	Thr	Leu	Arg	His	Tyr	Ala	Leu	Ala	Val	Leu	Thr	Leu	Asp	Ile	Tyr
		100					105						110		
Val	Arg	Phe	Pro	His	Trp	Phe	Ala	Gly	Gly	Arg	Leu	Asn	Leu	Phe	
		115					120					125			

<210> 10948

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10948

Ile	Gln	His	Gly	Cys	Tyr	Glu	Pro	Thr	Ser	Ala	Gly	Asn	Ser	Ile	Ile
1			5					10					15		
Pro	Gly	Val	Glu	Arg	Val	Ala	Ile	Ile	Lys	Phe	Phe	Asn	Met	Ile	Leu
		20					25					30			
Asp	Pro	Gly	Ile	Tyr	Asn	Ser	Gln	Val	Ile	Arg	Gly	Glu	Tyr	Cys	Gly
		35				40					45				
Gln	Ser	Asn	Ile	Thr	Ala	Tyr	Thr	Leu	Val	Ser	Leu	Ala	Ile	Tyr	Ser
	50					55					60				
Leu	Glu	Thr	Ser	Arg	Met	His	Gly	Ser	Ile						
65				70					75						

<210> 10949

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 10949

Phe	Val	Gly	Asp	Lys	Thr	Pro	Pro	Ala	Ala	Pro	Thr	Lys	Ser	Leu	Val
1			5					10					15		
Ile	Glu	Leu	Ser	Gly	Ala	Pro	Ile	Gly	Asn	Ile	Ser	Glu	Ser	Phe	Leu
		20					25					30			
Leu	Arg	Ser	Ser	Gly	Lys	Met	Ala	Leu	Lys	Ala	Phe	Cys	Thr	Cys	Leu

	35		40		45										
Leu	Lys	Met	Pro	Ser	Thr	Ser	Ala	Val	Lys	Leu	Thr	Val	Gly	Phe	Gly
50						55					60				
Gly	Ala	Leu	Thr	Gln	Ser	Lys	Ser	Ser	Met	Asp	Ala	Met	Ser	Pro	His
65					70					75					80
Pro	Gln	Ala	Ile	Ala											
				85											

<210> 10950

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10950

Ile	Val	Glu	Gly	Ile	Glu	Thr	Leu	Ser	Leu	Gln	Leu	Asp	Glu	Asn	Glu
1				5					10					15	
Thr	Met	Ala	Leu	Ala	Gln	Leu	Val	Lys	Arg	Leu	Ser	Trp	Ser	Asp	Leu
			20					25					30		
Arg	Gly	Cys	Ala	Val	Ser	Asp	Glu	Glu	Ala	Trp	Val	Met	Lys	Ser	Ala
		35					40					45			
Ile	Glu	Lys	Leu	Gln	Gln	Ala	Leu	Arg	Glu	Glu	Gly	Tyr	Ala	Pro	Arg
50					55						60				

65

<210> 10951

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10951

Asn	Val	Ile	Asn	Leu	Thr	Pro	Cys	Arg	Leu	Thr	Val	Lys	Lys	Asp	Ala
1			5						10					15	
Leu	His	Thr	Ser	Val	Ala	Pro	Phe	Cys	Thr	Cys	Lys	Phe	Leu	Asn	Thr
			20					25					30		
Ala	Met	Ala	Asp	Glu	Tyr	Ala	Ala	Leu	Ser	Leu	Ser	Leu	Phe	Ile	Asn
		35					40					45			
Arg	Lys	Thr	Ala	Ile	Arg	Val	Ser	Thr	Met	Leu	Gly	Trp	Leu	Ala	Ile
50					55						60				
Asp	Asn	Asp	Gly	Asn	Lys	His	Val	Arg	Gln	Cys	Phe	Glu	Asn	Cys	His
65				70					75						80
Thr	Pro	Lys	Ser	Ser	Cys	Thr	Leu	Ala	Gly	Thr	Leu	Cys			
				85					90						

<210> 10952

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10952

Leu	Leu	Ile	Ile	Gly	Leu	Asn	Gly	Asn	Phe	Val	Ser	Leu	Arg	Lys	Pro
1				5					10					15	
Gly	Leu	Ile	Ile	Ser	Glu	Arg	Glu	Asn	Gly	Pro	Arg	Glu	His	Leu	Arg
			20					25					30		
Trp	Leu	Ala	Phe	Gln	Tyr	Lys	Thr	Val	Ser	Pro	Gly	Gly	Ile	Asn	Phe
		35					40					45			
Ala	Pro	Asp	Ile	Ile	Ile	Val	Ile	Pro	Ala	Asp	His	Gln	Glu	Ser	Tyr
50					55						60				
Leu	Trp	Val	Lys	Leu	Phe	Tyr	Phe	Phe	Glu						
65					70				75						

<210> 10953
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 10953
 Phe Gln Gly Arg Ser Gly Arg Glu Pro Lys Ile Asp Tyr Gln Gln Thr
 1 5 10 15
 Trp Arg Ala Met Ile Ser Asn Leu Ser Val Ala Ile Ile Leu Ile Arg
 20 25 30
 His His Thr Arg Leu Phe Lys Leu Ala Met Cys Asn Gln Lys Ile Gly
 35 40 45
 Asp Ala Ala Cys Tyr Gln Trp Met Val Ile Asn Asp
 50 55 60

<210> 10954
 <211> 167
 <212> PRT
 <213> Enterobacter cloacae

<400> 10954
 Ala Pro Phe Phe Leu Ile Leu Lys Leu Pro His Asp Ile Val Asn Glu
 1 5 10 15
 Ser His Pro Phe Ser Asn Pro Thr Leu Leu Lys Leu Lys Glu Ile Lys
 20 25 30
 Met Leu Pro Asp Asn Leu Val Pro Ala Lys Tyr His Ile Thr Pro Val
 35 40 45
 Glu Gln Pro Ser Thr Glu Ala Asp Lys Glu Ala Asn Phe Thr Gln Gly
 50 55 60
 Lys Arg Lys Leu Ser Asp Tyr Glu Ala Asp Ile Leu Ile Gly Val Ser
 65 70 75 80
 Arg Thr Gly Lys Ser Arg Asn Met Val Leu Glu Glu His Asp Arg His
 85 90 95
 Leu Lys Glu Arg Leu Phe Arg Ala Ile Lys Ile Glu Ala Leu Val His
 100 105 110
 Leu Leu Asn Asp Leu Gln Ala Glu Gly Glu Ile Asp Ala Gln Thr Leu
 115 120 125
 Ser Gln Ile Met Val Glu Lys Thr Gln Gln Ile Asn Glu Ala Gly Asn
 130 135 140
 Glu Ile Trp Leu Asn Leu Ile Thr Arg Glu Lys Asn Asn Pro Ile Phe
 145 150 155 160
 Tyr Asn Leu Gly Glu Asp
 165

<210> 10955
 <211> 106
 <212> PRT
 <213> Enterobacter cloacae

<400> 10955
 Phe Met Lys Lys Pro Leu Ile Val Leu Thr Val Thr Leu Met Leu Ala
 1 5 10 15
 Gly Cys Ser Thr Leu Lys Thr Asp Gln Ala Ile Pro Leu Leu Gln Ala
 20 25 30
 Glu Thr Ala Lys Met Leu Gly Leu Gly Ser Ser Asp Glu Ile Thr Val
 35 40 45
 Thr Asn Val Asn Gly Ala Gln Pro Asp Ala Leu Gly Gly Gln Lys Leu
 50 55 60
 Ser Tyr Arg Ala Thr Thr Glu Lys Gly Arg Ile Phe Asp Cys Ser Ser
 65 70 75 80
 Met Met Met Pro Gly Ile Leu Gly Ser Ala Pro Thr Leu Ser Ala Pro

85 90 95
 Thr Cys Thr Pro Val Val Thr His Lys
 100 105

<210> 10956
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 10956
 Pro Ser Arg Arg Lys Arg Pro Val Ala Arg Ile Leu Glu Glu Lys Ile
 1 5 10 15
 Pro Glu Ala Lys Thr Leu Ala Val Arg Ile Leu Val Val Lys Thr Pro
 20 25 30
 Glu Ala Lys Thr Leu Ala Val Arg Ile Leu Ala Val Lys Thr Pro Glu
 35 40 45
 Val Lys Ile Leu Ala Val Arg Ile Leu Val Val Lys Thr Pro Glu Val
 50 55 60
 Lys Thr Arg Ala Ala Ser Arg Ala Phe Ser Arg Pro Trp Pro Lys
 65 70 75 80
 Ala Ala Thr Ser Gly Ile Pro Leu Ala Arg Ser Pro Arg
 85 90

<210> 10957
 <211> 159
 <212> PRT
 <213> Enterobacter cloacae

<400> 10957
 Leu Arg Val Lys Lys Thr Ile Pro Phe Phe Ile Thr Trp Gly Lys Ile
 1 5 10 15
 Asn Val Asn Asp Asp Ser Gly Asn Asn Val Tyr Leu Thr Leu Asp Asp
 20 25 30
 Lys Lys Ser Asp Glu Phe Ile Leu Lys Gln Asn Leu Asp Ala Leu Lys
 35 40 45
 Lys Ile Lys Asn Asp Glu Met Thr Arg Ile Thr Gln Asp Leu Val Ser
 50 55 60
 Ile Pro Ala Thr Leu Val Arg Leu Lys Trp Gln Asn Arg Arg Glu Ile
 65 70 75 80
 Tyr Ala Leu Gln Ala Lys Glu Glu Ile Tyr Gly Ala Val Met Asn Ala
 85 90 95
 Ile Ile Glu Gln Arg Pro Glu Leu Lys Glu Lys Ile Leu Gly Arg Leu
 100 105 110
 Glu Ala Asn Tyr Gln Tyr Leu Leu Ala Arg Glu Thr Ala Thr Leu Arg
 115 120 125
 Leu Thr Arg Lys Leu Ser Glu Gly Asn Tyr Arg Thr Ser Asn Val Thr
 130 135 140
 Cys Val Ala Leu Asp Glu Glu Ala Pro Thr Ala Pro Ser Glu
 145 150 155

<210> 10958
 <211> 176
 <212> PRT
 <213> Enterobacter cloacae

<400> 10958
 Asn Gln Lys Lys Trp Ser Leu Pro Met Asn Ser Ile Phe Phe Thr Val
 1 5 10 15
 Ile Thr Leu Leu Leu Leu Thr Ala Gly Val Leu Leu Leu Met Gln Glu
 20 25 30
 Phe Asn Lys Thr Lys Val Ser Lys Asp Val Ser Glu Pro Pro Gln Pro

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<210> 10959
<211> 87
<212> PRT
<213> Enterobacter cloacae
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<210> 10960
<211> 197
<212> PRT
<213> Enterobacter cloacae
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<400> 10960																
Lys	Gly	Trp	Leu	Val	Ala	Thr	Ser	Ile	Val	Leu	Val	Thr	Gln	Asp	Cys	
1				5					10					15		
Phe	Leu	Val	Arg	Gly	Met	Arg	Leu	Phe	Phe	Pro	Asp	Ile	Ile	Cys	Leu	
			20					25					30			
Ser	Ser	Ile	Asp	Arg	Asn	Ile	Phe	Asp	Thr	Asp	Ala	Asn	Glu	Tyr	Thr	
		35					40					45				
Val	Leu	Ile	Asp	Ser	Arg	Thr	Pro	Leu	Arg	Leu	Tyr	Asp	Tyr	Leu	Ile	
	50					55					60					
Arg	His	Pro	Ala	Arg	Thr	Arg	Lys	Thr	Ile	Cys	Cys	Val	Met	Leu	Asp	
65					70					75					80	
Met	Arg	Pro	Arg	Glu	Glu	Asp	Leu	Leu	Ser	Met	Lys	Leu	Phe	Met	Asn	
				85					90					95		
Thr	Ser	Leu	Thr	Ala	Pro	Asp	Met	Ala	Ser	Leu	Phe	Asn	Leu	Val	Leu	
			100					105					110			
Asp	Met	Lys	Gly	Arg	Arg	Leu	Thr	Thr	Lys	Trp	Leu	Leu	Asn	Leu	Arg	
		115					120					125				
Leu	Ser	Arg	His	Glu	Ala	Ile	Met	Ile	Arg	Leu	Leu	Lys	Ala	Gly	Arg	
	130					135					140					

Ser Met Glu Glu Ile Ala Asp Lys Leu Asn Met Ser Val Lys Ser Leu
 145 150 155 160
 Tyr Arg Lys Arg Thr Val Leu Ser Glu Arg Leu Gly Ala Gly Asn Phe
 165 170 175
 Asn Glu Ala Cys Leu Phe Ile Phe Lys Asn Lys Leu Leu Asp Ala Val
 180 185 190
 Gly Asn Asp Pro
 195

<210> 10961

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10961

Ser His His Ala Ser Ala Trp Gln Ala Gly Thr Val Gly Met Arg Phe
 1 5 10 15
 Phe Gln Ser Leu Gln Asn Asp Gly Ile Ser Ala Pro Ala Gln Ile Arg
 20 25 30
 Leu Leu Asn Asn Thr Phe Leu Arg Leu Val Phe Ser Phe Ser Ala Val
 35 40 45
 Pro Phe Val Gly Ile Pro Phe Ala Ile Trp Ile Tyr Met Leu Gly Asp
 50 55 60
 Asp Leu Gly Pro Thr Ile Ile
 65 70

<210> 10962

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 10962

Lys Arg Ile Phe Asp Val Thr Leu Pro Gly Asn Val Arg Pro Asp Ala
 1 5 10 15
 Leu Thr Pro Thr Leu Ser Leu Lys Gly Glu Gly Ala Val Cys Ala Gly
 20 25 30
 Ile Ile Leu Trp Gly Ser Leu Ser Gln Gly Glu Gly Ala Asn Thr
 35 40 45
 Lys Asn Gly Asn Gly Cys Tyr Arg Phe Ala Ser Thr Met Val Leu Asn
 50 55 60
 Thr Ser Ala Thr Ala Thr Ala Pro Gly Ser Ile Thr Pro Ser Arg Phe
 65 70 75 80
 Ser Leu Phe Thr Tyr Asp Glu Arg Pro Ala Pro Ala Phe Ala Ile Phe
 85 90 95
 Ala Val Ala Ser Ala Pro Cys Cys Ala Ala Cys Ala Ala Ala
 100 105 110

<210> 10963

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 10963

Ala Gly Arg Ser Ser Arg Lys Leu Pro Ala Asp Phe Gln Leu Ile Gly
 1 5 10 15
 Asn Trp Tyr Thr Gly Gln Met Ala Ile Leu Phe Ile Gln Lys Cys Ala
 20 25 30
 Lys Glu Cys Leu Ser Ser Cys Phe Tyr Cys Val Phe Asn Tyr Phe Tyr
 35 40 45
 Asn Arg Leu Lys His Arg Ala Gly Ala Gly Glu Cys Asp Leu Thr His
 50 55 60

Tyr Thr Lys Ala Val Leu Ser Met Gln Arg Ala Glu Met Gln Ile Tyr
 65 70 75 80
 Ser Arg Ile Leu Ile Trp Cys Cys Ile Gln Cys Arg Ile Lys Ser Leu
 85 90 95
 Phe Phe Ser Pro Gly Ala Ile Asn Glu Lys Asn His Gln Asn Ile Arg
 100 105 110
 Lys Ser Asn Tyr Val Gln Gly Glu
 115 120

<210> 10964

<211> 88

<212> PRT

<213> Enterobacter cloacae

<400> 10964

Arg Phe Ile Arg Gly Pro Arg Ile Arg Pro Leu Phe His Pro Phe Ala
 1 5 10 15
 Gln Val Asn Lys Phe Glu Asp Leu Leu Gln Arg Glu Ser Gln Leu Leu
 20 25 30
 His Lys Tyr Asp Glu Gln Ala Ala His Pro Glu Ser Phe Gln Arg Ile
 35 40 45
 Ser Asn Leu Ser Gly Ile Gly Thr Gln Val Lys Trp Gln Ser Tyr Leu
 50 55 60
 Tyr Lys Asn Val Leu Lys Ser Ala Tyr Leu Val Val Phe Ile Val Tyr
 65 70 75 80
 Leu Thr Ile Phe Thr Thr Ala
 85

<210> 10965

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 10965

Lys Gln Tyr Gly Val Gly Lys Thr Thr Gly Gly Val Asn Ile Gly Asn
 1 5 10 15
 Tyr Met Leu Phe Ile Lys Asn Lys Lys Val Thr Ile Asp Gly Gln Glu
 20 25 30
 Gly Asp Glu Ile Phe Ser Asn Val Asp Trp Asn Gly Ser Lys Trp Glu
 35 40 45
 Ser Gly Gly Ala Val Arg Ser Asp Gly Ile Ser Ile Ile Ser Ala Ala
 50 55 60
 Thr Thr Gly Thr Thr Thr Pro Val Ala Phe Thr Thr Ala Val Phe Pro
 65 70 75 80
 Leu Val Thr Ser Leu Ala Ile Gln Gly Thr Asp Thr Leu Ala Ile Thr
 85 90 95
 Asp Asp Thr Ser Leu Asp Gly Gln Ala Thr Ile Thr Leu Lys Tyr Leu
 100 105 110

<210> 10966

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 10966

Leu Phe Arg Arg Leu His Tyr Cys Ser Phe Glu Cys Glu Lys Lys His
 1 5 10 15
 Leu Glu Lys Gln Arg Tyr Gly Val Asp Cys Gln Met Lys Arg Leu Ile
 20 25 30

Cys Ser Leu Pro Leu Leu Val Ala Val Ser Ser His Val Ser Ala Ser
 35 40 45
 Glu Met Thr Gly Phe Ala Thr Gln Tyr Tyr Asp Glu Asp Gly Ser Leu
 50 55 60
 Thr Glu Ile Ser Thr Ile Val Pro Leu Ser Pro Thr Ile Thr Ile Gly
 65 70 75 80
 Lys Lys Thr Val Gln Met Glu Val Thr His Leu Ser Gln Ile Phe Ser
 85 90 95
 Thr Tyr Val Glu Lys Asp Ser Ser Ala His Trp Ile Cys Leu His Asp
 100 105 110
 Asp Asp Gly Thr Asn Tyr Trp Phe Ile Ser Asp Asn Glu Met Gly Ala
 115 120 125
 Gly Leu Leu Thr Ala Leu Ala Ile Ser Arg Asp Gly Ile His Lys Glu
 130 135 140
 Cys Val Asn Thr Thr Glu Arg Val Ser Val Ser Val Ser Gly Val Pro
 145 150 155 160
 Leu Leu Asn Ala Thr His Gly Asp Leu Val Glu Leu Phe Gly Lys Lys
 165 170 175
 Thr Ile Gly Asn Arg Lys Lys Ile Leu Leu Tyr Gln Glu Thr Pro Val
 180 185 190
 Gln Asp Gly Phe Val Gln Asn Asn Thr Val Ser Tyr Tyr Phe Asp Gly
 195 200 205
 Glu Lys Leu Arg Gly Val Ile Ile Gly Gln Ile Thr Ser Asn
 210 215 220

<210> 10967

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 10967

Arg Gly Gly Ser Met Thr Tyr Glu Glu Leu Ile Asn Ser Pro Ala Gly
 1 5 10 15
 Glu Phe Val Met Phe Ala Ser Lys Asp Gly Lys Val Arg Ile Glu Cys
 20 25 30
 Arg Phe Glu Ser Asp Thr Leu Trp Leu Ser Gln Ala Thr Ile Cys Glu
 35 40 45
 Leu Tyr Gly Lys Ala Lys Ala Thr Ile Ser Gly His Ile Lys Asn Ile
 50 55 60
 Phe Asp Glu Gly Glu Leu Val Glu Asn Ser Val Val Arg Phe Tyr Arg
 65 70 75 80
 Thr Thr Ala Ser Asp Gly Lys Val Tyr Asn Val Gln Tyr Phe Ser Leu
 85 90 95
 Pro Val Ile Leu Thr Ile Gly Tyr Arg Arg Leu Ile Lys Met Gly Lys
 100 105 110
 Ala Gly
 115

<210> 10968

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 10968

Phe Pro Ser Val Tyr Thr Phe Gly Glu Phe Cys Ala Arg Asp Arg Leu
 1 5 10 15
 Ser Asn Leu Leu Leu Pro Val Ser Asp Ala Arg Ile Ile Cys Lys Arg
 20 25 30
 Trp Leu Ser Asp Glu Lys Ile Lys Met Asp Ile Val Leu Phe Pro Gly
 35 40 45
 Gln Asn Ala Arg Ala Trp Ala Glu Thr Met Ile Asn Leu Glu Ala Arg

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<210> 10969
<211> 295
<212> PRT
<213> Enterobacter cloacae
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<400>	10969														
Ser	Ser	Ala	Lys	Asn	Thr	Ala	Lys	Ser	Thr	Phe	Arg	Val	Asn	Asn	Met
1				5					10					15	
Tyr	Lys	Tyr	Leu	Pro	Ser	Glu	Arg	Ile	Asp	Ile	Leu	Glu	Asn	Asn	Leu
			20					25					30		
Ile	Cys	Phe	Asn	Asn	Pro	Leu	Asn	Phe	Asn	Asp	Pro	Phe	Glu	Phe	Asn
			35				40					45			
Thr	Ser	Phe	Asn	Phe	Ser	Ser	Phe	Glu	Ser	Asn	Leu	Tyr	Asp	Ser	Leu
			50			55					60				
Ser	Thr	Val	Asp	Leu	Leu	Lys	Glu	Phe	Pro	Ala	Glu	Leu	Leu	Asn	Gln
65				70					75					80	
Ile	Glu	Lys	Leu	Pro	Lys	Glu	Ile	Val	Ser	Asn	Ile	Leu	Lys	Asp	Ala
				85					90					95	
Lys	Lys	Ala	Met	Leu	Ser	Met	Tyr	Lys	Lys	Glu	Lys	Glu	Asn	Ile	Ile
			100					105					110		
Arg	Ala	Ala	Asp	Thr	Thr	Met	Gln	Ser	Phe	Asn	Ser	Lys	Leu	Ile	Gly
			115				120					125			
Ile	Thr	Arg	Ile	Leu	Ser	Leu	Thr	Glu	Thr	Pro	Thr	Asn	Ile	Leu	Met
			130			135					140				
Trp	Gly	His	Tyr	Ala	Gln	Ala	His	Ser	Gly	Phe	Ile	Ile	Glu	Phe	Asp
145				150						155				160	
Ile	Asn	His	Pro	Phe	Phe	Ser	Gln	Arg	Arg	Gly	Gln	Lys	Gly	Glu	Phe

				165					170					175			
Gly	Tyr	Leu	Arg	Lys	Val	Ile	Tyr	Gln	Lys	Glu	Tyr	Pro	Phe	Leu	Asp		
			180					185					190				
Pro	Phe	Ser	Gly	Asp	Gln	Ile	Asn	His	Phe	Leu	Ile	Lys	Ser	Lys	Asp		
		195					200					205					
Trp	Glu	Tyr	Glu	His	Glu	Trp	Arg	Met	Leu	Leu	Pro	Gln	Ala	Asn	Ser		
	210					215					220						
Gly	Lys	Thr	Ile	Asn	Val	Cys	Glu	Lys	Glu	Phe	Asp	Leu	Tyr	Glu	Leu		
225					230					235					240		
Pro	Ser	Asp	Ala	Ile	Lys	Thr	Ile	Ile	Phe	Gly	Cys	Asn	Thr	Ser	Glu		
				245					250					255			
His	Phe	Lys	Thr	Lys	Met	Phe	Arg	Leu	Ile	Ser	Ser	Arg	Thr	Asp	Tyr		
			260					265					270				
Glu	His	Ile	Ser	Phe	Ile	Gln	Ala	Lys	Lys	Ser	Asn	Ser	Arg	Phe	Glu		
		275				280						285					
Ile	Val	Leu	Asp	Pro	Leu												
	290				295												

<210> 10970

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 10970

Leu	Thr	Ile	Gln	Asn	Gly	Asn	Ala	Glu	Glu	Leu	Cys	Leu	Leu	Lys	Lys		
1				5				10						15			
Lys	Val	Ile	Val	Ala	Arg	Tyr	Met	Trp	Tyr	Glu	Leu	Ile	Leu	Lys	Lys		
			20					25					30				
Tyr	Lys	Val	Asp	Leu	Trp	Leu	Phe	Phe	His	Phe	Lys	Asn	Asn	Asn	Asp		
		35				40						45					
Ile	Lys	Asn	Val	Ser	Ser	Ile	Lys	Met	Val	Asn	Ile	Val	Lys				
	50					55					60						

<210> 10971

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 10971

Ala	Met	Met	Leu	Leu	Pro	Arg	Leu	Tyr	Ala	Arg	Leu	Cys	Ala	Arg	Gln		
1				5				10						15			
Ala	Gly	Arg	Thr	Leu	Leu	Ala	Asn	Arg	Ile	Thr	Gln	Asn	Tyr	Ser	Gln		
			20					25					30				
Phe	Met	Arg	Cys	Pro	Glu	Ala	Asp	Val	Pro	Ala	Asp	Phe	Leu	His	Gln		
		35					40					45					
Asn	Ala	His	Glu	Leu	Ser	Gly	Phe	Asn	Phe	Val	Glu	Gln	Ile	Phe	Pro		
	50					55					60						
Pro	Ala	Leu	Trp	Ala	Arg	Asn	Val	Arg	Phe	Asp	Leu	His	Gly	Tyr	Val		
65					70					75					80		
Ala	Gln	Trp	Thr	Arg	Glu	Gln	Ala	Phe	Tyr	Ser	Ser	Ser	Arg	Thr	Leu		
				85					90					95			
Leu	Leu	Gly	Met	Arg	Trp	Ala	Gly	Phe	Gly	Leu	Ile	Val	Asp	Ala	Leu		
			100				105						110				
Leu	Ala	Thr	Ala	Pro	Ala	Asp	Val	Arg	Phe	Gln	Phe	Ile	Thr	Arg	His		
		115					120					125					
Pro	Ala	Leu	His	Lys	Leu	Met	Ala	Ala	His	Glu	Gly	Arg	Arg	Ala	Ser		
	130					135						140					
Ser	Phe	Phe	Ala	Pro	His	Arg	Leu	Val	Thr	Val	Leu	Leu	Met	Asp	Glu		
145					150					155				160			
Arg	Leu	Pro	Asp	Ala	Pro	Leu	Phe	Ser	Thr	Gln	Ala	Gly	Asp	Gln	Lys		
				165					170					175			

Ala Trp Leu Thr Asp Val Ser Thr Arg Phe Leu Ser Arg Tyr Gly Tyr
 180 185 190
 Ser Val Arg Thr Leu Leu Pro Ile Cys Ser Leu His Ala Ala Glu Phe
 195 200 205
 Gly Leu Glu Ser Gln Ala Tyr Ala Pro Glu Asp Tyr Arg Gln Ala Ala
 210 215 220
 Ala Asp Thr Leu Asn Ala Leu Arg Lys Thr Pro Thr Leu Trp Ser Ala
 225 230 235 240
 Trp Asp Asp Leu Ser Val Ile Tyr His Gly
 245 250

<210> 10972

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 10972

Ser Thr Leu Leu Ser Arg Arg Lys Gly Ser Gly Met Asn Asn Ile Glu
 1 5 10 15
 Thr Gln Leu Leu Glu Ser Gly Phe Thr Val Lys Glu Leu Ala Tyr Leu
 20 25 30
 Asn Arg Asn Ile Ser Arg Tyr Gly Ser Ser Leu Leu Glu Val Val Leu
 35 40 45
 Glu Leu Gly Lys Arg Phe Ile Met Val Leu Cys Ile Thr Ala Thr Val
 50 55 60
 Ala Leu Ile Phe Leu Ala Leu Leu Phe Phe Ala Glu His Tyr Asn Ile
 65 70 75 80
 Val Ser Gly Gly Ile Ser Leu Phe Ile Val Leu Ile Ile Ala Trp Phe
 85 90 95
 Phe Gln Pro Pro Ile Ile Thr Tyr Lys Ala Trp Arg Phe Arg Lys Lys
 100 105 110
 Tyr Ile Ser Ser Val Gln Thr His
 115 120

<210> 10973

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 10973

Arg Tyr Leu Ala Leu Val Gly Thr Tyr Met Ser Thr Ala Lys Arg Asp
 1 5 10 15
 Pro Asn Gln Ser Lys Ser Gly Lys Ala Pro Thr Phe Gln Ile Arg Ile
 20 25 30
 Thr Pro Glu Leu Lys Ala Gln Phe Glu Ala Ala Ala Lys Ala Glu Gly
 35 40 45
 Met Ser Leu Gly Asn Trp Leu Lys Asn Leu Gly Arg Asn Glu Leu Asn
 50 55 60
 Arg Leu Lys Lys
 65

<210> 10974

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10974

Ile Ser Asn Asp Ala Cys Arg Leu Arg Leu Lys Asn Ala Phe Ser Arg
 1 5 10 15
 Val His Tyr Arg Lys Tyr Glu Met Arg Met Thr Asn Glu Lys Glu Asn
 20 25 30

Ile Ala Gln Arg Gly Gly Ser Gly Ser Leu Pro Pro Ala Asp Asp Arg
 35 40 45
 Asp Ala Ser Asn His Ala Arg His His Cys Pro Ser Pro Ala Ala
 50 55 60

<210> 10975

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 10975

Ser Asp Ala Pro Val Arg Cys Val Ala Ala Trp Arg Ala Val Val Arg
 1 5 10 15
 Leu Ala Cys Trp Ala Leu Arg Gly Leu His Pro Glu Gly Ala Glu Ala
 20 25 30
 Tyr Leu Lys Trp Ala Ala Ser Ser Lys Ile Leu Lys Val Lys Leu Cys
 35 40 45
 Val Thr Gly Arg Arg Tyr Met Pro Gly Gly Glu Ile Met Ala His Leu
 50 55 60
 Val Gly Leu Leu Pro Leu Lys Gln Val Leu Arg Arg Glu Asn Pro Arg
 65 70 75 80

<210> 10976

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10976

Asp Val Glu Phe His Arg Pro Ser Leu Ser Leu Gln Gly Val Ser Cys
 1 5 10 15
 Met Gln Ile Gly Leu Arg Asn Val Leu Pro Arg Gly Tyr Val Phe Ser
 20 25 30
 Ala Asp Phe Phe Ser Tyr Asn Thr Gly Gln Lys Ala Pro Ser Ser Lys
 35 40 45
 Asn Phe Pro His Ala Leu Val Trp Arg Trp Gly Trp Thr Ala Leu Arg
 50 55 60
 Ala Pro Ser Arg Gln Met Pro Leu Tyr
 65 70

<210> 10977

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 10977

Gly Phe Arg Lys Gly Ala Pro Leu Thr Ile His Lys Ile Asn Phe Pro
 1 5 10 15
 Gly Arg Leu Ala Thr Ser Ser Gly Ala Pro Leu Thr Leu Glu Ser Leu
 20 25 30
 Met Ala Pro Ser Pro Arg Ser Arg Ser Ala Glu Arg Leu Val Asp Ile
 35 40 45
 Ile Ile Ala Leu His Arg Asn Gly Ser Val Asn Arg Arg Asp Leu Met
 50 55 60
 Gln Lys Phe Gly Ile Thr Glu Arg Thr Val Tyr Arg Asp Leu Gln Ala
 65 70 75 80
 Leu Ser Pro Ile Ile Glu His Asp Gly Lys Gly Arg Tyr Gln Leu Leu
 85 90 95
 Pro Ala Tyr Gln Thr Cys Arg Cys Val His Cys Pro Glu Ala Asn Asp
 100 105 110

Glu Thr Pro Gln Gly
115

<210> 10978

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10978

Arg Tyr Pro Thr Pro Trp Ala Val Gln Arg Ser Val Ile Pro Thr Pro
1 5 10 15
Cys Trp Arg Ser Ser Thr Ser Ser Asn Phe Cys Ala Asn Ser Phe Ile
20 25 30
Ala Arg Lys Ala Ile Leu Tyr Ala Pro Asp Phe Asn Leu Ile His Arg
35 40 45
Ala Leu Phe Asn Ser Ala Tyr Lys Arg Lys Met Arg Asn Leu Pro Cys
50 55 60
Leu
65

<210> 10979

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10979

Ser Ile Ala Leu Arg Ala Met Lys Leu Leu Ala Gln Lys Phe Glu Leu
1 5 10 15
Val Leu Glu Arg Gln His Gly Val Gly Ile Thr Leu Arg Cys Thr Ala
20 25 30
His Gly Val Gly Tyr Arg His Gly Leu Leu Leu Gln Arg Pro Thr Arg
35 40 45
Val Ala Gln Gly Asp Gly Asp Leu Thr Leu Ile Leu Thr Gly Thr Leu
50 55 60
Ala Glu Asp
65

<210> 10980

<211> 542

<212> PRT

<213> Enterobacter cloacae

<400> 10980

Cys Arg Phe Ser Gly Thr His Cys Leu Ser Arg Lys Thr Met Met Ile
1 5 10 15
Ser Ser Ser His His Thr Arg Glu Gln Phe Glu His Cys Leu Ala Ala
20 25 30
Ile Arg Gln Ala Ser Val Glu Ile Leu Leu Leu Asn Val His Val
35 40 45
Ser Glu Gly Lys Asp Pro Arg Trp Phe Leu Glu Gln Leu Asp Ser Ala
50 55 60
Arg Leu Gly Leu Gly Gly Trp Gly Ala Val Ala Arg Lys Leu Asn Leu
65 70 75 80
Asn Asp Ala Glu Met Thr Ala Phe Thr Leu Gln Leu Arg Leu Leu Gln
85 90 95
Gln Arg Val Pro Gln Tyr Glu Ser Gly Gln Asp Val Ser Glu Asn Gln
100 105 110
Leu Ile Ala Ala Met Arg Phe Val Thr Ser Leu Glu Tyr Leu Arg Leu
115 120 125
Gln Gln Pro Leu Leu Thr Tyr Glu Thr Gly Arg Val Pro Glu Lys Glu
130 135 140

Ser Gln Leu Gln Ala Gln Lys Gln Val Arg Ala Ile Glu Leu Met Ile
 145 150 155 160
 Lys Gly Leu Ile Gln Gln Ala Trp Pro Asp Pro Val Arg Leu Asn Asn
 165 170 175
 His Leu Lys Thr Leu Phe Asn Ala Glu Arg Val Arg Arg Trp Leu Lys
 180 185 190
 Asn Gly Glu Ile Asn Asp Val Leu Ser Gly Met Leu Phe Ser Glu Leu
 195 200 205
 Ala Gln Leu Leu Val Asp Lys Lys Glu Phe Ser Arg Tyr Tyr Ala Pro
 210 215 220
 Leu Phe Asn Ala Pro Asp Met Leu Thr Leu Leu Val Glu Pro Arg Lys
 225 230 235 240
 Thr Leu Gln Thr Phe Leu Glu Asp Ile Arg Gln Ile Arg Asn Ser Ile
 245 250 255
 Thr Val Gln Gln Pro Leu Ser Gly Ala Gln Ile Gln Leu Leu Asp Cys
 260 265 270
 Tyr Tyr Thr Gln Ile Thr Arg Ser Val Gln Arg Ala Phe Glu Glu Gly
 275 280 285
 Arg Thr Arg Val Asn Pro Ala Ala Leu Met Ala Val Asp Glu Ser Glu
 290 295 300
 Leu His Ala Phe Trp Glu Lys Ala Gln Lys Met Asp Arg Thr Thr Gly
 305 310 315 320
 Gly Asp Leu Phe Glu Val Arg Asp Ser Ile Glu Lys Pro Thr Gln Arg
 325 330 335
 Ala Thr Arg Thr Pro Glu Gln Arg Glu Gln Leu Ile Ser Gly Val Leu
 340 345 350
 Trp Gly Ala Val Gly Val Met Val Ile Ala Ile Val Val Gly Gly Phe
 355 360 365
 Trp Leu Val Asn Ser Ser Lys Pro Gln Pro Ala Val Ala Ser Thr Ala
 370 375 380
 Ser Pro Ala Pro Val Gln Glu Met Arg Glu Thr Pro Ser Ser Arg Glu
 385 390 395 400
 Thr Leu Thr Arg Met Gly Val Thr Trp Asp Glu Asn Asn Phe Arg Ser
 405 410 415
 Ala Ile Ser Arg Asn Asp Thr Arg Val Ala Leu Leu Phe Leu Gln Gly
 420 425 430
 Gly Met Asp Trp Lys Met Ser Trp Thr Glu Glu Ala Leu Ser Ala Gly
 435 440 445
 Tyr Asp Asp Val Leu Glu Val Met Leu Arg Tyr Arg Leu Gln Met Thr
 450 455 460
 Glu Gln Lys Pro Cys Arg Arg Phe Ile Asn Thr Leu Ser His Ala Met
 465 470 475 480
 Ala Asn Gly Glu Ser Leu Thr Pro Met Arg Lys Gln Tyr Leu Lys Ala
 485 490 495
 Phe Cys Thr Val Pro Ala Val Val Lys Arg Gln Gln His Asp Ala Asp
 500 505 510
 Met Ala Thr Arg Arg Ala Lys Thr Gln Pro Asp Ala Ser Thr Lys Lys
 515 520 525
 Trp Gln Ser Ile Gln Thr Ala Ile Tyr Glu Val Ile Arg
 530 535 540

<210> 10981

<211> 143

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (12)

<220>

<221>UNSURE

<222>(94)

<400> 10981

```

His Cys Val Asp Tyr Ile Tyr Val Arg Phe Asp Xaa Asn Ser Ile Phe
1          5          10          15
Gln Lys His Tyr Leu Leu Lys Lys Arg Asp Val Phe Lys Gly Lys Ala
          20          25          30
His Leu Asp Thr Glu Val Met Ala Asp Trp Val Asp Thr Gln Lys Glu
          35          40          45
Ile Asn Leu Phe Thr Leu Asp Ser Leu Ser Asn Ile Asn Asn Thr Asp
          50          55          60
Glu Phe Asn Arg Lys Gly Asn Glu Arg Leu Asn Glu Ile Tyr Glu Ser
65          70          75          80
Arg Arg Val His Gly Lys Asp Ile Lys Lys Asn Arg Lys Xaa Glu Leu
          85          90          95
Asp Ser Leu Gly Arg Thr His Val Ala Asn Gly Arg Ser Glu Pro Ile
          100          105          110
Leu Pro Ser Ser Ser Asn Val Leu Leu Leu Pro Gly Arg Glu Glu Lys
          115          120          125
Gln Arg Trp Leu Lys Gly Lys Lys Lys Thr Glu Asp Ala Glu
          130          135          140

```

<210> 10982

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 10982

```

Lys Ala Leu Arg Val Arg Leu Leu Leu Arg Lys Lys Ile Arg Asp Met
1          5          10          15
Lys Met His Val Lys Ile Thr Ala Lys Leu Met Ala Lys Met His Leu
          20          25          30
Val Leu Ala Leu Val Trp Ala Ile Leu Thr Ile Pro Thr Leu Leu Trp
          35          40          45
Trp Lys Asn Ser Ile Leu Trp Val Ser Leu Met Ser Ile Tyr Ala Ile
          50          55          60
Val Ile Ser His Leu Ala Tyr Ser Ala Ala His Ala Glu Lys Ala
65          70          75          80
Ala Ser Lys Ala Met Asp Lys Ser Glu Gly Ala Ser Gln Lys Ala Asn
          85          90          95
Gln Thr Ala Asn Ser Leu Gln Gly Asn Ala Arg Gln Ala His
          100          105          110

```

<210> 10983

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 10983

```

Met Ile Cys Tyr Leu Leu Gly Lys Pro Glu Arg Lys Glu Trp Glu Leu
1          5          10          15
Phe Pro Asp Ile Asn His Arg Val Ile Lys Leu Ser Gln Ile Glu Lys
          20          25          30
Val Thr Phe Asp Arg Arg Lys Glu Met Met Val Ser Lys Arg Leu Lys
          35          40          45
Ala Lys Asp Tyr Arg Thr Val Ser Thr Gly Phe Asn Val Leu Ser Ser
          50          55          60
Lys Pro Gly Leu Ile Thr Leu Ala Ile Ala His Ser Tyr Ala Val Thr
65          70          75          80

```

<210> 10984
 <211> 68
 <212> PRT
 <213> Enterobacter cloacae

<400> 10984
 Gly Ala Ile Pro Ser Trp Ile Trp His Gly Arg Cys Ile Glu Lys Arg
 1 5 10 15
 Leu Thr Arg Ser Arg Ser Lys Phe Arg Ser Gly Phe Pro Ile Ala Val
 20 25 30
 Arg Pro Arg Glu Lys Pro Gly Arg Glu Asn Arg Tyr Pro Ala Ala Ala
 35 40 45
 Val Lys Asn Val Asn Gln Ser Pro Tyr Gly His Gly Ser Gly Pro Val
 50 55 60
 Pro Ser Leu
 65

<210> 10985
 <211> 104
 <212> PRT
 <213> Enterobacter cloacae

<400> 10985
 Cys Asn Ile Cys Leu Thr Gly Asp Gln His Leu Cys Ser Val Val His
 1 5 10 15
 Phe Trp Cys Ser Val Gln Ala Glu Gly Tyr Leu Phe Gly Glu Tyr Val
 20 25 30
 Ser Leu Phe Thr Phe Phe Gly Lys Met Lys Ala Leu Gly Lys Lys Glu
 35 40 45
 Gly Ala Leu His Gly Glu Phe Ala Leu Ala Gly Gln Arg Ala Pro Asp
 50 55 60
 Gly Ser Arg Lys Lys Asn Ser Asp Gly His Arg Asp His Cys Ala Arg
 65 70 75 80
 Ser Ala Phe Gly Ala Gly Leu Ser Phe Ala Ala Gly Ala Ser Pro Ala
 85 90 95
 Ser Leu Ala His Leu Ala Gly
 100

<210> 10986
 <211> 112
 <212> PRT
 <213> Enterobacter cloacae

<400> 10986
 Ile Cys Arg Phe Phe Ile Arg His Gly Arg Arg Pro Gly Asp Gln Phe
 1 5 10 15
 His Asn Thr Ala Pro Gly Gly Leu Ser Ile Ala Glu Ser Ile Pro Phe
 20 25 30
 Thr Leu Leu Ile Arg Lys Arg Glu Arg Leu Trp Arg Gly Lys His Leu
 35 40 45
 Pro Ala Gly Ser Gly Glu Ser Gly Tyr Arg Leu Ile Lys Ile Ile Asn
 50 55 60
 Ile Asn Ser Lys Met Leu Glu Ala Lys Val Ala Gly Ala Gly Gly His
 65 70 75 80
 Ser Leu Phe Arg Ala Met His Phe Glu Lys Phe Asn Ala Gly Ser Met
 85 90 95
 Gly His Asn Lys His Ala Asn Gly Val Asn Phe Cys Ala Gly Lys
 100 105 110

<210> 10987
 <211> 178
 <212> PRT
 <213> Enterobacter cloacae

<400> 10987
 Gln Glu Phe Thr Met Pro Ser Ser Val Arg Gly Ile Asp His Ile Gly
 1 5 10 15
 Ile Thr Val Pro Asp Ile Glu Lys Ala Thr Leu Phe Phe Glu Arg Ala
 20 25 30
 Phe Gly Ala Gln Val Leu Tyr His Ser Val Asp Ala Glu Thr Asp Asn
 35 40 45
 Ile Asp Gln Ala Ala Gln Gln His Thr Leu Lys Leu Phe Pro Gly Thr
 50 55 60
 Lys Ile His Ala Ile Arg Met Leu Val Met Pro His Gly Pro Gly Ile
 65 70 75 80
 Glu Leu Phe Glu Met His Gly Pro Glu Gln Gly Met Pro Ala Arg Ala
 85 90 95
 Ser Asp Phe Gly Leu Gln His Phe Ala Val Tyr Val Asp Asp Phe Asp
 100 105 110
 Lys Ala Ile Ala Ala Phe Thr Ala Ala Gly Gly Glu Met Phe Thr Ala
 115 120 125
 Pro Lys Pro Leu Thr Phe Pro Asp Glu Gln Gly Glu Gly Asn Ala Phe
 130 135 140
 Cys Tyr Gly Gln Thr Pro Trp Gly Ser Ile Val Glu Leu Ile Ser Trp
 145 150 155 160
 Pro Thr Pro Met Pro Tyr Glu Lys Thr Thr Asn Leu Arg Arg Trp Lys
 165 170 175
 Pro

<210> 10988
 <211> 69
 <212> PRT
 <213> Enterobacter cloacae

<400> 10988
 Gly Val Gln Phe Leu Thr Gly Asn Lys His Pro Asn Ser His Val Pro
 1 5 10 15
 Ser Arg Arg Tyr Gln Phe Leu Pro Glu Arg Val Lys Gly Gly Pro Glu
 20 25 30
 Ser Val Arg Phe Ser Thr His Ile Pro Glu Asn Ile Asp Val Gln Gln
 35 40 45
 Val Thr Phe Arg Gln Cys His Thr Pro Gly Glu Glu Tyr Thr His His
 50 55 60
 Ser Val Cys Gln
 65

<210> 10989
 <211> 84
 <212> PRT
 <213> Enterobacter cloacae

<400> 10989
 Arg Tyr Val Pro Tyr Gln Met Tyr Pro Glu Lys His His Ile Leu Thr
 1 5 10 15
 Ile Ala Tyr Ile Ala Phe Val Ser Thr Leu Ile Phe Ile Leu Arg Thr
 20 25 30
 Cys Ser Gln Leu Val Asn Tyr Leu Glu Val Thr Glu Ile Cys Gln Ile
 35 40 45
 Leu Tyr Cys Asp Tyr Tyr Cys Val Gly Ile Asn Asp Val Val His Tyr

50 55 60
 Leu Asn Lys Lys Arg Leu Arg Asp Arg Tyr Pro Glu Asn Val Val Ser
 65 70 75 80
 Pro Gly Gly

<210> 10990
 <211> 283
 <212> PRT
 <213> Enterobacter cloacae

<400> 10990
 Asp Phe Gly Glu Lys Lys Met Arg Tyr Thr Arg Thr Ser Thr Ala Thr
 1 5 10 15
 Asp Val Thr Asp Thr Leu Arg Gln Tyr Gln Ala Asp Leu Leu Thr Gly
 20 25 30
 Pro Cys Trp Met Ser Val Trp Pro Leu Ile Glu Arg Leu Leu Ser Arg
 35 40 45
 Glu Asn Glu Met Gln Ser Val Trp Gln Asn Ile Ala Arg Gln Ala Leu
 50 55 60
 Thr Trp Gln Gln Cys Tyr Cys Leu Leu Glu Gln Ile Ile Leu Ala Gly
 65 70 75 80
 Arg Phe Ser Arg Pro Asp Ile Val Ser Arg Leu Lys Glu Asp Tyr Arg
 85 90 95
 Gln Leu Glu Glu Leu Asn Arg Thr Ile Ser Lys Glu Ala Gly Glu Leu
 100 105 110
 Ala Gln Lys Ile Leu Val Arg Asp Ala Ile Leu Asn Arg Asn Ala Phe
 115 120 125
 Thr Leu Glu Arg Thr Thr His Ile Val Glu Leu Met Glu Met Ala Glu
 130 135 140
 Asp Asn Asp Gly Leu Tyr Arg Tyr Tyr Leu His Glu Thr Leu Asp Gly
 145 150 155 160
 Leu Thr Cys Arg Tyr Asp Gly Lys Tyr Trp Pro Gly Leu Pro Gly Val
 165 170 175
 Leu Gln Val Ile Ala Arg Glu His Pro Glu Ile Gly Cys Leu Ser Glu
 180 185 190
 Ser Asp Arg Ala Ile Ile Asn Gly Arg Gly Lys Met Leu Pro Asp Tyr
 195 200 205
 Leu Arg Glu Leu Phe Ser Ser Ile Glu Asn Val Arg Gln Gly Pro Trp
 210 215 220
 Gly Leu Pro Lys Glu Phe Thr Leu Thr Asp Ser Ser Leu Ala Thr Leu
 225 230 235 240
 Ala Thr Val Thr Leu Asp His Thr Glu Val Phe Ser Ala Asp Thr Val
 245 250 255
 Lys Val Arg Arg Ser Glu Phe Ser Lys Arg Gly Glu Arg Gly Ala Trp
 260 265 270
 Pro Phe Lys Pro Leu Lys Ala Val Asp Met
 275 280

<210> 10991
 <211> 580
 <212> PRT
 <213> Enterobacter cloacae

<400> 10991
 Val Asp His Phe Leu Pro Val Val Asp Ser Asn Pro Leu Ser Thr Ile
 1 5 10 15
 Arg Glu Leu Leu Phe Leu Tyr Glu Met Glu Asp Arg Phe Ser Ala Asp
 20 25 30
 Lys Lys Arg Leu Arg Val Ala Thr Glu Leu Leu Glu Leu Leu Glu Thr
 35 40 45

Asp	Gln	Val	Leu	Arg	Arg	Glu	Ala	Phe	Glu	Asp	Ile	Pro	Ala	Gln	Leu
50						55					60				
Val	Thr	Leu	Leu	Asp	Arg	Asp	Leu	Leu	Val	Asp	Pro	Thr	Arg	Ser	Pro
65					70					75					80
Val	Glu	Lys	Arg	Pro	Arg	Leu	Ile	Cys	Ser	Leu	Cys	Val	Gln	Leu	Ala
				85					90					95	
Asp	Ile	Thr	Glu	Ala	Ser	Tyr	Ile	Thr	Glu	Ala	Leu	Glu	Met	Leu	Glu
			100					105					110		
Gln	Glu	Leu	Phe	Ala	Trp	Pro	Pro	Leu	Asp	Glu	His	His	Ala	Arg	Asp
		115					120					125			
Ile	Tyr	Ser	Leu	Thr	Asn	Gly	Val	Met	Ser	Val	Leu	Leu	Thr	Arg	Gly
	130					135					140				
Met	Thr	Leu	Thr	Glu	Cys	Tyr	Leu	Leu	Tyr	Ile	Asn	Ile	Phe	Arg	Asn
145					150					155					160
Val	Ser	Thr	Glu	Pro	Asn	Ala	Phe	Arg	Ala	Ala	Phe	His	Ser	Phe	Arg
				165					170					175	
Gln	Lys	Leu	Val	Thr	Pro	Thr	Arg	Asp	Val	Thr	Val	Arg	Met	Phe	Ile
			180					185					190		
Thr	Ser	Glu	Lys	Leu	His	Thr	Leu	Leu	Asn	Thr	Gln	Gly	Pro	Thr	Leu
		195					200					205			
Gln	Phe	Asn	Gly	Cys	Val	Phe	Met	Pro	Leu	Asp	Glu	Ala	Arg	Gln	Arg
		210					215				220				
Phe	Ser	Leu	Ser	Val	Asp	Ile	Pro	Val	Cys	Ser	Met	Ser	Asp	Thr	Ser
225					230					235					240
Ala	Arg	Asn	Met	Ala	Gly	Gln	Met	Leu	Arg	Glu	Ser	Leu	Asp	Val	Ile
				245					250					255	
Ala	Tyr	Met	Val	Gly	Lys	Gly	Asp	Ile	Thr	Val	Gln	Lys	Gln	Phe	Met
			260					265					270		
Ile	Ile	Arg	Asp	Glu	Asp	Glu	Thr	Glu	Val	Pro	Arg	Phe	Asp	Asn	Glu
		275					280					285			
Ile	Glu	Ala	Asn	Ala	Asp	Arg	Leu	Thr	Asp	Glu	Glu	Phe	Ala	Arg	Phe
	290					295					300				
Met	Val	Ala	Met	Asn	Arg	Leu	Phe	Thr	Asp	Thr	Pro	Asp	Val	Ser	Arg
305					310					315					320
Lys	Lys	Ile	Ser	Ser	Ala	Phe	Arg	Phe	Phe	Arg	Asn	Gly	Ile	Glu	Ser
				325					330					335	
Gln	Val	Gln	Glu	Ser	Arg	Phe	Thr	Ala	Tyr	Trp	Ser	Ala	Leu	Glu	Ser
			340					345					350		
Leu	Thr	Leu	Gly	Val	Ala	Pro	Gly	Thr	Pro	Ser	His	Glu	Gln	His	Val
		355					360					365			
Ile	Gly	Val	Val	Ala	Pro	Cys	Met	Val	Leu	Asp	Tyr	Val	Val	Lys	Gln
	370					375					380				
Leu	Phe	Ser	Leu	Arg	Lys	Val	Leu	Arg	Phe	Ile	Leu	Arg	Glu	Pro	Gly
385					390					395					400
His	Pro	Leu	Arg	Thr	Pro	Glu	Ile	Ala	Ser	Leu	Pro	Leu	Gly	Gln	Leu
				405					410					415	
Tyr	Ala	Leu	Leu	Lys	Asp	Ala	Asp	Arg	Val	Arg	Glu	Leu	Gln	Thr	Asp
			420					425					430		
Leu	Gln	His	Phe	Pro	Tyr	Val	Met	Tyr	Arg	Val	Arg	Lys	Leu	Ala	Gly
		435					440					445			
Ile	Cys	Ala	Ser	Pro	Glu	Lys	Met	Ala	Asp	Lys	Leu	Gly	Gln	His	Ala
	450					455					460				
Glu	Lys	Val	Thr	Arg	His	Leu	His	Arg	Leu	Tyr	Leu	Leu	Arg	Asn	Thr
465					470					475					480
Ile	Val	His	Asn	Ala	Gly	Thr	Ser	Pro	His	Ile	Asp	Leu	Leu	Thr	Val
				485					490					495	
Asn	Leu	Glu	His	Tyr	Leu	Arg	Ala	Thr	Ile	Ser	Ala	Leu	Phe	Asn	Ile
			500					505					510		
Val	Val	Ile	His	Pro	Thr	Val	Ser	Thr	Ala	Glu	Glu	Ala	Phe	Thr	Arg
		515					520					525			
Cys	Gln	Phe	Thr	Ser	Glu	Ser	Val	Phe	Arg	Glu	Leu	Asn	Pro	Leu	His

530 535 540
 Gly Ile Thr Glu Lys Lys Val Tyr Thr Ala Ile Asp Asn Gln Leu Lys
 545 550 555 560
 Asn Gly Thr Leu Ser Arg Ser Asp Ala Arg Leu Ile Ala Trp Leu Asn
 565 570 575
 Ala His His
 580

<210> 10992
 <211> 75
 <212> PRT
 <213> Enterobacter cloacae

<400> 10992
 Ala Gln Gln Asp Leu Leu Asn Ile Leu Arg Thr Ile Phe Phe Phe Phe
 1 5 10 15
 Ile Pro Asp Trp Glu Phe Ser Met Tyr Pro Asn Glu Ser Ala Ile Trp
 20 25 30
 Ile Ile Tyr Pro Gln Lys Asn Met Ser Tyr Lys Val Arg Gly Phe Ile
 35 40 45
 Asp Phe Ile Asp Phe Ile Asp Phe Ile Asp Phe Ile Asp Glu Ile
 50 55 60
 Gly Thr Thr Pro Tyr Trp Lys His Gly Lys
 65 70 75

<210> 10993
 <211> 82
 <212> PRT
 <213> Enterobacter cloacae

<400> 10993
 Thr Leu Leu Met Pro Leu Lys His Gln Arg His Ser Leu Phe Asn His
 1 5 10 15
 Arg Arg Arg Arg Arg Gln Ser Ala Tyr Cys Cys Ile Asn Pro Phe Cys
 20 25 30
 His Tyr Ser Phe Leu Thr Asn Gly Ser Ala His Arg Leu Thr Pro Phe
 35 40 45
 Asn Val Thr Ser Val Arg Ser Lys Val Asp Leu Arg Ile Thr Gly Leu
 50 55 60
 Asn Tyr Val Lys Glu Thr Phe Trp Cys Pro Pro Asn Pro Asp Arg Arg
 65 70 75 80
 Gln

<210> 10994
 <211> 173
 <212> PRT
 <213> Enterobacter cloacae

<400> 10994
 Glu Thr Cys Cys Thr Arg Ala Gln Gln Lys His Gln Ile Leu Ser Ser
 1 5 10 15
 Val Lys His His Cys Tyr Ala Gly Gly Lys Glu Asn Leu Met Lys Leu
 20 25 30
 Phe Thr Ile Gly Phe Thr Gln Ser Ala Glu Asp Phe Phe Thr Arg
 35 40 45
 Leu Lys Glu Ser Gly Ala Arg Arg Ile Leu Asp Val Arg Leu Asn Asn
 50 55 60
 Arg Ser Gln Leu Ala Gly Phe Ala Lys Gln Asp Asp Leu Lys Phe Phe
 65 70 75 80
 Ala Arg Thr Leu Cys Asp Ile Asp Tyr Ala His Met Pro Asp Leu Ala

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      85              90              95
Pro Thr Arg Glu Met Phe Glu Arg Tyr Lys Leu Gln Lys Gly Asp Trp
      100              105              110
Asp Ile Tyr Ser Ser Asp Phe Ile Asp Leu Ile Thr Lys Arg His Ile
      115              120              125
Glu Thr Leu Glu Lys Ser Gln Phe Ala Asp Ala Cys Leu Leu Cys Ser
      130              135              140
Glu His Lys Pro His His Cys His Arg Arg Leu Val Ala Glu Tyr Leu
      145              150              155              160
Ala Asp Lys Trp Pro Asp Val Thr Ile Met His Leu
      165              170

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<210> 10995
 <211> 68
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 10995
Arg Val Leu Cys Ala Val Leu Thr Trp Asp Cys Ala Ala Val Asp Ala
1              5              10              15
Thr Thr Glu Ile Lys Leu Val Leu Arg Leu Ala Gly Thr Pro Ile Asp
      20              25              30
Ile Ala Ile Ala Gly His Ala Ile Val Ala Gly Ala Val Leu Val Thr
      35              40              45
Asn Asn Ala Leu Glu Phe Glu Arg Ile Ser Thr Leu Val Pro Glu Asp
      50              55              60
Trp Val Asn
65

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<210> 10996
 <211> 70
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 10996
Ile Met Phe Asn Val Ala Arg Asn Phe Pro Thr Asp Arg Ile Asn Pro
1              5              10              15
Phe Cys Gly Phe Tyr Asn Ile Ile Lys Lys Phe Asp Pro Asp Gly Leu
      20              25              30
Met Phe Gly Ile Gly Arg Glu Tyr Ile Asn Asn Val Thr Ala Asn Pro
      35              40              45
Glu His Arg Pro Ser Gln Ser Phe Val Cys Thr Gly Ile Leu Gln Thr
      50              55              60
Cys Gln Leu Met Asn
65              70

```

<210> 10997
 <211> 164
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 10997
Arg Thr Phe Lys Leu Asn Arg Met Thr Gly Leu Ala Val Leu Cys Leu
1              5              10              15
Ser Leu Met Gly Cys Ser Ala Val Pro Ser Glu Asn Ser Ala Gln Tyr
      20              25              30
Leu Arg Thr Glu Met Gln Ser Pro Val Ser Gly Ala Thr Ile Ile Thr
      35              40              45
Val Thr Ala Asp Ser Leu Met Lys Gln Asp Asn Thr His Asn Ala Ile
      50              55              60
Leu Tyr Ala Leu Arg Pro Met Pro Gly Lys Ala Phe Thr Ser Glu Leu

```

65					70					75				80
Asp	Arg	Lys	Phe	Ala	Ala	Thr	Met	Tyr	Ile	Asp	Leu	Ser	Pro	Gly
				85				90					95	
Glu	Lys	Ser	Arg	Thr	Ala	Glu	Ile	Ser	Gly	Glu	Ile	Asn	Tyr	Tyr
			100					105				110		Asp
His	Glu	Arg	Tyr	Val	Asn	Ala	Arg	Leu	Val	Gly	Asp	Ser	Ile	Arg
		115					120				125			Thr
Ile	Pro	Ile	Ala	Pro	Lys	Thr	Ile	Pro	Leu	Thr	Leu	Asn	Lys	Pro
		130				135					140			Phe
Ser	Ile	Asn	Leu	Pro	Gln	Gly	Ile	His	Tyr	Ser	Val	Met	Leu	Thr
145					150					155				160
Ser	Gln	Pro												

<210> 10998

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 10998

Arg	Lys	Gln	Ser	Met	Ser	Asn	Pro	Val	Ile	Ser	Gly	Asn	Gly	Ile	Phe
1				5					10					15	
Ser	His	Val	Phe	Ile	Gly	Ala	Val	Asp	Val	Gln	Lys	Ser	Ala	Glu	Phe
		20						25					30		
Tyr	Asp	Ala	Thr	Leu	Gly	Ala	Leu	Gly	Ile	Asn	Asn	Leu	Gly	Pro	Phe
		35					40					45			
Gly	Asn	Gly	Trp	Val	Leu	Phe	Gly	Arg	Asp	Lys	Pro	Ala	Phe	Ile	Ile
	50					55					60				
Ala	Arg	Pro	Gly	Asn	Gly	Glu	Ala	Pro	Ser	Ser	Asn	Gly	Val	Thr	Ile
65					70					75				80	
Gly	Phe	Ala	Ala	Ala	Thr	Pro	Ala	Glu	Val	Asp	Ala	Phe	His	Ala	Ala
			85					90					95		
Gly	Leu	Ala	Ala	Gly	Gly	Thr	Asp	Glu	Gly	Gln	Pro	Gly	Pro	Arg	Gly
		100					105					110			
His	Leu	Pro	Gly	Ala	Tyr	Ala	Ala	Tyr	Leu	Arg	Asp	Pro	Ala	Gly	Asn
		115				120						125			
Lys	Ile	Cys	Ser	Tyr	Thr	Phe	Ile								
130						135									

<210> 10999

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10999

Thr	Leu	Thr	Thr	Ala	Gly	Arg	Thr	Phe	Ser	Ser	Ile	Gly	Ala	Arg	Leu
1				5					10					15	
Gly	Met	Ala	Ser	Cys	Pro	Gly	Thr	Cys	Glu	Gly	Ser	Ala	Ala	Leu	Ala
		20						25					30		
Gly	Lys	Asp	Ala	Glu	Arg	Asp	Asn	Pro	Thr	Leu	Asn	Ala	Lys	Ala	Leu
		35					40					45			
Asn	Ser	Trp	Phe	Phe	Phe	Phe	Ile	Asp	Ala	Asp	Ser	Arg	Ile	Leu	Glu
	50					55					60				

65

<210> 11000

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 11000

Cys Tyr Glu Arg Glu Arg Phe Tyr Gln Ile Ser Leu Ser Glu Asn Met
 1 5 10 15
 Pro Gly Gln Arg Arg Ala Asn Asn Leu Lys Ser Lys Leu Asn Val Ile
 20 25 30
 Lys Met Met Leu Phe Trp Trp Arg Gly Arg Val Tyr Cys Asn Pro Leu
 35 40 45
 Leu Ile Arg Cys Cys Leu Gln Pro Asp Ser Ile Gln Val Lys Val Lys
 50 55 60
 Asp Val Arg Pro Gln Ile Leu
 65 70

<210> 11001

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 11001

Val Val Pro Pro Tyr Ala His Val Lys Arg Ile Lys Ile Gln Pro Ala
 1 5 10 15
 Ala Ser Leu Phe Pro Gln Gln Val Leu Met Arg Cys Leu Met Gln Leu
 20 25 30
 Pro Leu Ala Ile Thr Ala Gln Gly Glu Met Glu Leu Ser Leu Gln Leu
 35 40 45
 Met Gly Ala Lys Arg Gln Leu Ala Gly Val Ala Ala Gln Thr Val Leu
 50 55 60
 Arg Arg Glu Asp Ile Arg Arg Leu His Leu Phe Gln Arg
 65 70 75

<210> 11002

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 11002

Thr Ser Glu Glu Glu Lys Met Lys Gln Gln Leu Ser Thr Ala Ser Asp
 1 5 10 15
 Tyr Asn Glu Ala Cys Asn Leu Leu Arg Ser Gly Tyr Val Lys His Val
 20 25 30
 Arg Leu Gly Trp Asn Val Gly Ser Asp Glu Phe Phe Arg Ile Ala Ser
 35 40 45
 Asp Trp Cys Asp Thr Gly Ala Lys Ile Lys Lys Glu Gly Asp Asn Phe
 50 55 60
 Ile Ile Ser Leu Lys Gly Phe Pro Ile Pro Pro Gln His
 65 70 75

<210> 11003

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 11003

Ile Lys His Val Phe Arg Lys Asp Val Thr Ile Met Val Thr Ala Val
 1 5 10 15
 Leu Asn Val Lys Ile Asp Glu Ala Leu Lys Glu Arg Leu Arg His Tyr
 20 25 30
 Ala Glu Asp Asn Asn Glu Asn Leu Ser Val Thr Thr Glu Lys Leu Leu
 35 40 45
 Leu Leu Ala Phe Glu Ala Val Glu Glu Ala Gly Val Ser Glu Glu Asp
 50 55 60
 Val Asp Asn Gln His Thr Glu Glu Glu Ser Val Thr Pro Phe Thr Pro

65 70 75 80
 Lys Glu Ile Lys Lys Ala Leu Arg Lys Leu Leu Lys Lys Arg Lys
 85 90 95

<210> 11004
 <211> 72
 <212> PRT
 <213> Enterobacter cloacae

<400> 11004
 Thr Val Thr Lys Gln Leu Ile Lys Val Ala Thr Gly Gly Ala Phe Lys
 1 5 10 15
 His Val His Phe Gln Leu Arg Gln His Ile His Arg Ala Lys Arg Ala
 20 25 30
 Asn Met Cys Asn Gln Val Ser Ser Leu Trp Asp Asp Tyr Arg Leu Ser
 35 40 45
 Leu Leu Ile Thr Ile Ala Leu Ala Tyr Asp Val Ser Gln His Phe Gly
 50 55 60
 Arg Asn Thr Ala Arg Ile Leu
 65 70

<210> 11005
 <211> 87
 <212> PRT
 <213> Enterobacter cloacae

<400> 11005
 Ser Ile Phe His His Phe Gly Leu Met Pro Gln Thr Thr Phe Pro Thr
 1 5 10 15
 Pro Val Asn Val Val Phe Leu His Gly Glu Arg Thr Gly His Ser Phe
 20 25 30
 Ile Tyr Phe Ser Arg His Tyr Lys Thr Ala Ser Gly Arg Thr Lys Thr
 35 40 45
 Lys His Lys Ser Leu Ile Leu Ile Thr Leu Gln Val Leu Tyr Arg Met
 50 55 60
 Asn Gln Ala Lys Ala Met Phe Gln Glu Cys Asn Asn Glu Tyr Ile Lys
 65 70 75 80
 Pro Arg Gly Glu Gln Arg
 85

<210> 11006
 <211> 81
 <212> PRT
 <213> Enterobacter cloacae

<400> 11006
 Arg Phe Thr Thr Leu Arg Ala Glu Tyr Arg Pro His Ile Val Lys Ile
 1 5 10 15
 Phe Ile Leu Leu Ala His Lys Ser Ser Gly Gly Arg His Lys Ile Gly
 20 25 30
 Ile Gly Ala Pro Arg Val Asp Ile Gln Thr Ala Ala Thr Gly Val Ala
 35 40 45
 Gly Val Asn Ala Gln Leu Phe Gly Leu Ala Glu Thr Leu Asp Val Val
 50 55 60
 Glu Asp Ala Leu His Ala Leu Leu Val Glu Phe Val Val Met Thr Glu
 65 70 75 80

<210> 11007
 <211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 11007

Gly	Asn	Gln	Asn	Glu	Arg	Phe	Val	Phe	Gly	Phe	Gly	Thr	Ala	Arg	Ser
1				5					10					15	
Arg	Phe	Ile	Val	Thr	Gly	Lys	Val	Tyr	Glu	Gly	Val	Thr	Gly	Ser	Leu
			20					25					30		
Thr	Val	Gln	Glu	His	Asn	Ile	Asp	Gly	Arg	Gly	Glu	Arg	Gly	Leu	Gly
		35					40					45			
His	Lys	Pro	Lys	Val	Val	Glu	Asp	Thr	Ser	Arg	Asn				
	50					55					60				

<210> 11008

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 11008

Ser	Thr	Leu	Leu	His	Pro	Glu	Ala	Phe	Leu	Arg	Arg	His	Pro	Asp	Val
1				5					10					15	
Ser	Leu	Val	Arg	Asn	Ala	Ile	Ile	Leu	Met	Phe	Val	Ser	Arg	Val	Gly
			20					25					30		
Ile	Leu	Ser	Thr	Gln	Ile	Glu	Ser	Ala	Ile	Leu	Leu	Arg	Leu	Thr	Thr
		35					40					45			
His	Leu	Val	Ser	Asn	Val	Ser	Gln	Ala	Lys	Arg	Gly	Ile	Ser	Phe	Gln
	50					55					60				
Lys	Thr	Thr	Asn	Leu	Leu	Lys	Glu	Lys	Leu	Ile	Leu	Ile			
65					70					75					

<210> 11009

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 11009

Cys	Pro	Glu	Ala	Asp	Ser	Pro	Arg	Asn	Val	Asn	Pro	Ser	Thr	His	Phe
1				5					10					15	
Thr	Arg	Ala	Cys	Ile	Phe	Thr	His	Ser	Asn	Val	Ala	Phe	Phe	Met	Thr
			20					25					30		
Asp	Tyr	Val	Tyr	Val	Thr	Phe	Leu	Ala	Thr	Glu	Gly	Asp	Leu	Arg	His
		35					40					45			
Ala	Glu	Ala	Arg	His	Gln	Glu	Thr	Arg	Gly	Glu	Ser	Tyr	Ala	Lys	Thr
	50					55					60				
Leu	Trp	Met	Leu	Gln											
65					70										

<210> 11010

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 11010

Gln	Ile	Thr	Cys	Thr	Leu	His	Phe	Ser	Gln	Arg	Lys	Ala	Thr	Cys	Val
1				5					10					15	
Met	Leu	Lys	Arg	Asp	Thr	Arg	Arg	His	Ala	Ala	Lys	Ala	Met	Leu	Lys
			20					25					30		
His	Ser	Gly	Cys	Tyr	Ser	Asn	Thr	Leu	Thr	Leu	His	Met	Tyr	Ala	Glu
		35					40					45			
Asp	Ile	Lys	Leu	Tyr	Trp	Leu	Arg	Asn	Val	Thr	Thr	Ala	Asp	Phe	Pro
	50					55					60				

Gly Met Gly Lys Asn Ser Ile Ala Thr Pro Glu Ser Gly Cys Ile Leu
 65 70 75 80

<210> 11011

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 11011

Arg Lys Met Ala Val Arg Lys Arg Phe Ile Ala Gly Ala Lys Cys Pro
 1 5 10 15
 Ser Cys Gln Ala Gln Asp Thr Leu Ala Met Trp Arg Glu Asn Asn Ile
 20 25 30
 Asp Ile Val Glu Cys Val Lys Cys Gly His Gln Met Arg Glu Ala Asp
 35 40 45
 Lys Glu Ala Arg Asp His Val Arg Lys Glu Glu Gln Val Ile Gly Ile
 50 55 60
 Phe His Pro Asp
 65

<210> 11012

<211> 88

<212> PRT

<213> Enterobacter cloacae

<400> 11012

Ile Phe Phe Gln Asp Arg Ile Ile Phe Leu Ala Thr Glu Ile Leu Phe
 1 5 10 15
 Ser Ile Ser Ala Ile Leu Ala Ile Lys Lys Lys Asn Leu Thr Val Asn
 20 25 30
 Phe Pro Glu Leu Arg Pro Ile Thr Pro Leu Phe Val Leu Arg Val Val
 35 40 45
 Thr Leu Arg Asn Lys Tyr Gly Lys Tyr Phe Tyr Val Gly Ser Arg Ile
 50 55 60
 Arg Phe Ala Val Arg Arg His Ser Gly Gln Ser Asp Arg Cys Thr Lys
 65 70 75 80
 Ser Thr Ala Asp Ala Asp Leu
 85

<210> 11013

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 11013

Met Lys Gln Ser Ser Leu Ile Asn Thr Thr Pro Gly Leu Trp Ala Ser
 1 5 10 15
 Gln Ala Ala Ala Ser Ser Ser Thr Val Cys Ala Ser Leu Met Ser Leu
 20 25 30
 Phe Leu Thr Pro Leu Leu Ala Lys Tyr Pro Val Asn Pro Ser Arg Val
 35 40 45
 Tyr Leu His Lys Ser Ile Met Ile Val Asp Met Ala Tyr Pro His Ser
 50 55 60
 Met Arg Asn Asp Asn Ser Pro Pro Ala
 65 70

<210> 11014

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 11014

Gly Lys Trp Ser Met Lys Thr Leu Ile Ser Leu Thr Ala Leu Leu Gly
 1 5 10 15
 Leu Ala Ser Ala Ser Ala Phe Ala Ala Thr Ala Pro Glu Cys Val Lys
 20 25 30
 Ala Asp Asn Gln Gln Ile Glu Ala Leu Phe Asp Lys Trp Asn Ala Ser
 35 40 45
 Leu Gln Thr Gly Asp Ala His Lys Val Ala Asp Asn Tyr Leu Ser Asp
 50 55 60
 Ala Val Leu Leu Pro Thr Ile Ser Asn Gln Val Arg Leu Thr Asp Lys
 65 70 75 80
 Glu Arg Val Asp Tyr Phe Glu Asp Phe Leu Lys Lys Lys Pro Phe Gly
 85 90 95
 Lys Ile Asp Ser Arg Thr Ile Arg Leu Gly Cys Asn Lys Ala Ile Asp
 100 105 110
 Thr Gly Thr Tyr Thr Phe Thr Phe Ala Asp Lys Thr Ser Val Thr Ala
 115 120 125
 Arg Tyr Thr Phe Thr Tyr Ala Trp Asp Gly Lys Ala Trp Lys Ile Ser
 130 135 140
 Ser His His Ser Ser Ala Met Pro Glu Gly
 145 150 155

<210> 11015

<211> 265

<212> PRT

<213> Enterobacter cloacae

<400> 11015

Asn Val Gly Leu Gly Thr Ser Ala Ile Leu Asn Ala Arg Ser Asn Glu
 1 5 10 15
 Thr Tyr Pro Ala Asp Gly Val Leu Thr Val Gly Gln Phe Gly Ile Gly
 20 25 30
 Ala Asp Trp Leu Pro Leu Thr Thr Asp Phe Lys Thr Ile Glu Lys Gly
 35 40 45
 Gly Ile Tyr Ala Gly Gly Gly Ala Thr Gly Val Asn Phe Phe Asn Pro
 50 55 60
 Tyr Ala Pro Val Leu Val Met Cys Arg Tyr Ala Thr Ser Ala Met Gln
 65 70 75 80
 Ala Leu Gln Ala Asp Asn Thr Thr Leu Ala Phe Asn Val Lys Asp Ala
 85 90 95
 Asn Gly Trp Arg Gly Trp Val Lys Leu Tyr Ser Glu Tyr Asn Thr Ile
 100 105 110
 Arg Ala Ser Asp Gly Thr Leu Lys Ala Ala Ser Pro Val Ile Lys Val
 115 120 125
 Phe Ser Asp Gly Thr Tyr Gln Thr Asn Asp Glu Ser Glu Gly Cys Thr
 130 135 140
 Val Thr Arg Leu Ala Thr Gly Gln Tyr Leu Val Glu Gly Cys Gln Gly
 145 150 155 160
 Leu Asn Ser Asp Ala Ala Trp Gly Gly Ile Asp Gly Gly Phe Asp Ile
 165 170 175
 Pro Thr Asp Arg Asn Lys Gln Pro Leu Ile Trp Leu Asp Tyr Glu Val
 180 185 190
 Asn Ala Val Gly Ser Val Leu Val Lys Thr Tyr His Arg Thr His Pro
 195 200 205
 Asp Ala Pro Ala Phe Ala Arg Asn Glu Leu Glu Gly Val Gly Asp Gly
 210 215 220
 Asp Pro Val Asp Ile Pro Arg Asp Gln Phe Val Ser Val Arg Val Glu
 225 230 235 240
 Met Pro Ala Asp Ser Leu Tyr Asn Gln Lys Ile Arg Ala Ala Glu Leu

Ala Met Thr Ala Asp Ala Gly Glu
 245 250 255
 260 265

<210> 11016
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 11016
 Cys Leu Glu Asn Ser Ser Ser Phe Ala Ala Pro Tyr Tyr Trp Asp Asp
 1 5 10 15
 Ser Gln Leu Ile Thr Arg Ala Gln Lys Leu Lys Leu Phe Val Ser Asp
 20 25 30
 Ile Ala Thr Ile Pro Glu Asn Asn Lys Ile Gln Pro Leu Arg Pro Ser
 35 40 45
 Phe Ser Gln Ile Ser Ile Lys Ala Ile Asn Gly Val Arg
 50 55 60

<210> 11017
 <211> 113
 <212> PRT
 <213> Enterobacter cloacae

<400> 11017
 Pro Asp Gln Gln Arg Gly Arg Ser Ala Gly Lys Val Ser Thr Pro Gly
 1 5 10 15
 Val Lys Phe Leu Met Ser Leu Ala Leu Arg Met Gly Arg Thr Leu Ser
 20 25 30
 Glu Leu Arg His Asn Met Thr Ala Ser Glu Leu Leu Met Trp Ile Glu
 35 40 45
 Tyr Asn Arg Gln Ser Pro Val Gly Asp Ile Arg Gly Asp Ile Gln Ala
 50 55 60
 Ala Gln Ile Val Ser Ala Ile Tyr Gly Ser Gln Gly Ala Lys Val Pro
 65 70 75 80
 Leu Asp Asp Ala Ile Leu Arg Trp Gly Gly Glu Glu Gln Ser Glu Pro
 85 90 95
 Asn Asp Pro Phe Ala Gly Leu Glu Ala Ala Leu Thr Ala Ala Thr Gln
 100 105 110

<210> 11018
 <211> 117
 <212> PRT
 <213> Enterobacter cloacae

<400> 11018
 Cys Trp Gly Thr Lys Met Glu Ile Leu Leu Val Ser Ile Val Ile Gly
 1 5 10 15
 Leu Ile Pro Ala Leu Ile Ala Gln Ser Lys Gly Arg Ser Phe Phe Ala
 20 25 30
 Trp Trp Val Tyr Gly Ala Leu Leu Phe Ile Ile Ala Phe Val His Ser
 35 40 45
 Leu Val Ile Lys Lys Asp Val Ala Ala Glu Glu Lys Asp Leu Ile Glu
 50 55 60
 Asn Asp Gly Met Lys Lys Cys Pro Phe Cys Ala Glu Leu Ile Lys Ser
 65 70 75 80
 Glu Ala Ile Lys Cys Lys His Cys Gly Ser Asp Leu Ala Val Asp Ser
 85 90 95
 Pro Pro Val Lys Thr Asp Glu Glu Tyr Leu Glu Glu Ala Arg Gln Lys

100 105 110
Val Trp Lys Gln
115

<210> 11019
<211> 74
<212> PRT
<213> Enterobacter cloacae

<400> 11019
Gly Gly Lys Ser Tyr Cys Gly Ser Cys Cys Leu Thr Val Val Lys Arg
1 5 10 15
Val Leu Phe Ile Asp Val Leu Cys Asp Thr Asp Lys Gln Pro Val Phe
20 25 30
Ser Val Asp Glu Glu Glu Gln Val Arg Glu Ile Tyr Gly Pro Val His
35 40 45
Ser Arg Leu Leu Lys Gln Ala Leu Asp Leu Ile Asn Asn Ala Asp Glu
50 55 60
Ala Arg Glu Lys Ser Gln Pro Pro Ala
65 70

<210> 11020
<211> 149
<212> PRT
<213> Enterobacter cloacae

<400> 11020
Gln Glu Asp Leu Leu Lys Gly Met Met Arg Asp Val Trp Gly Leu Thr
1 5 10 15
Val Val Glu Phe Ile Ala Ile Lys Arg Asn Leu Glu Asn Ile Ser Asp
20 25 30
Thr Trp Ser Asp Leu Trp Ala Met Leu Tyr Leu Ser Gln Ala Lys Pro
35 40 45
Gly Gln Leu Leu Gly Ala Lys Phe Asp Asp Val Ser His Asp Ile Leu
50 55 60
Val Leu Ser Ala Thr Lys Gly Leu Arg Glu Arg Cys Ile Ala Leu Lys
65 70 75 80
Pro Gly Val Lys Arg Ile Leu His Ser Arg Arg Glu Lys Tyr Pro Glu
85 90 95
Asp Val Phe Leu Phe Gln Ser His Ser His Arg Thr Lys Thr Thr Pro
100 105 110
Arg Pro Val Thr Leu Val Ala Phe Asn Ala Ala Leu Lys Arg Ala Ser
115 120 125
Ile Gly Val Thr Ala Lys Thr Val Ser Ser Lys Ser Ala Tyr Tyr Leu
130 135 140
Thr Pro Leu Arg
145

<210> 11021
<211> 131
<212> PRT
<213> Enterobacter cloacae

<400> 11021
Gly Phe Arg Ser Gly Glu Ser Arg Glu His Gly Asn Gly Arg Pro Leu
1 5 10 15
Thr Glu Pro Leu Phe Phe Gln Glu Asp Trp Met Ala Glu Tyr Gly Val
20 25 30
Gln Thr Trp Asp Ala Ser Gly Lys Val Asn Asn Tyr Gly Val Lys Pro
35 40 45
Val Ser Val Cys Gly Tyr Leu Gln Leu Ala Gln Asn Gln Lys Thr Gly

50 55 60
 Ser Tyr Thr Val Ala Leu Pro Pro Gly Cys Arg Leu Thr Tyr Phe Gln
 65 70 75 80
 Ser Met Asn Gly Asp Gln Phe Gly Thr Ser Arg Arg Lys Ile Thr Ile
 85 90 95
 Ser Gly Gly Thr Ala Thr Val Ser Ala Ala Gly Asp Thr Asp Tyr Ser
 100 105 110
 Ala Gly Thr Glu Pro Ala Ala Ala Tyr Leu Ile Phe Gln Ile Glu
 115 120 125
 Arg Ala
 130

<210> 11022

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 11022

Met Ala Glu Tyr Gly Val Leu Leu Thr Thr Thr Ser Gly Glu Val Trp
 1 5 10 15
 Val Thr Ala Asn Ser Ser Pro Ile Ala Leu Gln Ala Arg Lys Thr Ala
 20 25 30
 Ala Leu Gln Gly Thr Ser Gly Phe Asn Thr Lys Val Thr His Thr Phe
 35 40 45
 Pro Ala Gly Gln Pro Val Val Ala Phe Val His Cys Thr Val Glu Val
 50 55 60
 Glu Ile Thr Gln Thr Ile Ser Gly Asn Thr Ile Thr Ile Asp Phe Leu
 65 70 75 80
 Arg Pro Asn Ala Thr Gly Thr Ala Tyr Val Tyr Phe Phe Ser Ile Phe
 85 90 95
 Pro Gln Thr Lys Pro Asp Tyr Gly Leu Ala Val Trp Asp Ala Ser Gly
 100 105 110
 Thr Leu Ile Leu Thr Asn Glu Thr Arg Thr Leu Ser Asp Val Val Thr
 115 120 125
 Leu Gly Thr Ala Gly Val Asp Ala Ser Ser Gly Tyr Asn Ile Asn Thr
 130 135 140
 Thr Leu Ala Gly Lys Trp Ala Cys Met Pro Ala Met Leu Gly Leu Ile
 145 150 155 160
 Thr Gly Val Val Ser Ala Gly Gly Gln Pro Gln Pro Tyr Ser Ala Ile
 165 170 175
 Tyr Lys Ser Met Ala Lys Leu Glu Gly Ser Asn Thr Arg Ile Phe Ala
 180 185 190
 Arg Pro Gln Thr Thr Pro Gly Gly Asn Leu Gln Asn Val Ala Tyr Ser
 195 200 205
 Asn Leu Arg Asn Val Ile Met Ala Ile Asn Cys Ala Asn Tyr Asp
 210 215 220

<210> 11023

<211> 449

<212> PRT

<213> Enterobacter cloacae

<400> 11023

Ala Pro Thr Arg Ser Pro Ala Pro Pro Ala Thr Asn Pro Phe Asn Phe
 1 5 10 15
 Glu Gln Thr Pro Leu Arg Arg Gly Phe Leu Leu Pro Gly Glu Asn Met
 20 25 30
 Leu Tyr Asn Thr Gly Thr Ile Ala Ile Asn Gly Asn Thr Ala Thr Gly
 35 40 45
 Thr Gly Thr Asn Phe Thr Ala Ala Gly Ser Leu Ile Arg Asn Gly Cys
 50 55 60

Thr Val Ile Ala Met Thr Ser Pro Val Gln Val Phe Gln Ile Thr Thr
 65 70 75 80
 Ile Gly Ser Ala Thr Ser Leu Thr Val Thr Pro Ala Ala Asn Pro Ala
 85 90 95
 Val Pro Ala Gly Thr Arg Phe Ala Ile Leu Leu Ser Asp Ser Leu Ser
 100 105 110
 Val Asp Gly Leu Ala Gln Asp Ile Ala Glu Thr Phe Thr Met Tyr Gln
 115 120 125
 Arg Tyr Met Ser Gly Phe Ala Asp Val Met Asn Gly Thr Ser Asp Val
 130 135 140
 Thr Ile Thr Ile Asn Gly Thr Val Val Thr Val Pro Gly Gln Lys Ser
 145 150 155 160
 Leu Ala Lys Lys Gly Ala Asn Ser Asp Ile Thr Ser Leu Ser Gly Leu
 165 170 175
 Lys Thr Ala Leu Ser Ile Gly Gln Gly Gly Thr Gly Ala Thr Asn Ala
 180 185 190
 Ala Asp Ala Arg Thr Asn Leu Gly Leu Asp Lys Thr Val Asn Thr Glu
 195 200 205
 Gly Asn Gln Ser Ile Ser Gly Glu Lys Asn Phe Thr Gly Pro Leu Lys
 210 215 220
 Ile Thr Ala Ala Tyr Pro Gln Ile Thr Leu Trp Ser Thr Ala Gln Pro
 225 230 235 240
 Asn Gly Thr Tyr Gly Arg Val Val Thr Phe Gly Ser Glu Gly Asn Lys
 245 250 255
 Thr Phe Ile Ala Ala Arg Gln Trp Glu Gly Gly Asn Asn Thr Cys Val
 260 265 270
 Thr Tyr Leu Pro Thr Phe Lys Asp Gly Tyr Phe Thr Phe Trp Thr Thr
 275 280 285
 Ser Asn Thr Thr Val Thr Ser Asp Gly Thr Ile Lys Gln Ala Ser Pro
 290 295 300
 Ile Ala Arg Ile Val Lys Ser Gln Glu Glu Asn Arg Arg Thr Asp Val
 305 310 315 320
 Glu Asn Asp Gly Phe Thr Trp Cys Gly Cys Gly Thr Val Asn Ala Glu
 325 330 335
 Ala Glu Gly Val Ser Ile Ser Arg Leu Asp Thr Gly Val Tyr Glu Leu
 340 345 350
 Thr Gly Ser Ala Gly Leu Ala Ser Asp Gly Trp Gln Leu Leu Pro Pro
 355 360 365
 Met Asp Pro Gly Gly Met Gly Glu Met Gly Val Val Glu Ala Glu Gln
 370 375 380
 Thr Glu Ser Gly Gly Leu Ile Ile Arg Leu Tyr Lys Gln Lys Tyr Met
 385 390 395 400
 Leu Ser Asp Gly Gly Glu Ile Val Lys Thr Lys Gly Glu Pro Met Asp
 405 410 415
 Val Pro Val Ser Ser Trp Ile Asp Val Arg Leu Asp Met Pro Thr Asp
 420 425 430
 Ser Val Phe Lys Arg Ser Gln Gln Arg Leu Gln Ser Asp Glu Glu Ser
 435 440 445

<210> 11024

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 11024

Lys Ser Arg His Asn Ser Asp Asn Lys Gly Trp Val Lys Ile Gln Cys
 1 5 10 15
 Lys Ser Arg Val Lys Phe Gly Cys Lys Ser Thr Asp Ile Asp Asn Leu
 20 25 30

Ser Arg Asn Gln Asp Ile Ala Val Gly Leu Gln Val Ile Leu Lys Pro
 35 40 45
 Arg Ala Arg Pro Thr Pro Thr Trp Thr Ser Met Pro Glu Arg Thr Leu
 50 55 60
 Asp Phe Glu Phe
 65

<210> 11025

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 11025

Ala Thr Gln Val Arg Val Ala Val Glu Pro Gln Leu Gly Ala Pro Leu
 1 5 10 15
 Arg Ser Arg Gly Met Ala Ala Ser Leu Asp Gln Arg Gly Ala Asp Thr
 20 25 30
 Pro Ala Arg Met Cys Pro Ser His Arg Glu Leu Val Gln Ile Cys Gly
 35 40 45
 Leu Pro Leu Glu Gly Val Gly Pro Glu Leu Gly Ile Leu Gly Arg Gln
 50 55 60
 Gly Ala Thr Ala Asp Asp Ala Val Ala Ala Thr Arg Asp
 65 70 75

<210> 11026

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 11026

Leu Ala Asn Ala Val Ser Arg Trp Val Leu Arg Phe Asn His Leu Ala
 1 5 10 15
 Leu Gln Ile Leu Ala Asn Gly Val Pro Gly Gln Ala Ala Ser Ser Gly
 20 25 30
 Tyr Phe Pro Asn Arg Arg Thr Ile Ala Lys Met Pro Ala Ser Asn Cys
 35 40 45
 Ala Gln Tyr Arg His Val Tyr His Ser Leu Ile Ser Pro Ala Ile Ser
 50 55 60
 Arg Arg Glu Thr Val Ser Tyr Val Gly Gln Ile Ser Thr Gln Ile Phe
 65 70 75 80
 Thr Leu Ser Trp Gly Ala Asp Lys Ile Leu Asp Tyr Phe Arg Ser Ser
 85 90 95
 Ser Cys Ile Arg Met Lys Ile Ala Phe Glu Pro
 100 105

<210> 11027

<211> 387

<212> PRT

<213> Enterobacter cloacae

<400> 11027

Asn Cys Ala Ala Gly Leu Ala Ser Arg Val Arg Val Ser Leu Gln Met
 1 5 10 15
 Pro Phe His Ser Glu Phe Leu Glu Lys Ile Lys Met Gln Pro His Asp
 20 25 30
 Thr Phe Thr Gly Ser Tyr Gln Pro Gly Asp Val Glu Phe Leu Leu Lys
 35 40 45
 Pro Val Val Ile Glu Met Thr Pro Val Glu Gln Lys Glu Glu Leu Ile
 50 55 60
 Gln Ser Gly Lys Lys His Tyr Ser Asp Met Leu Ser Gln Glu Pro Ala
 65 70 75 80

Pro Thr Gln Trp His Leu Asp Leu Phe His Arg Ala Leu Asp Arg Gly
 85 90 95
 Ala Glu Arg Leu Ala Lys Glu Val Thr Gln Leu Ala Ile Ala Leu Ala
 100 105 110
 Glu Arg Phe Gly Asp Glu Pro Ile Val Leu Ala Ser Leu Val Arg Ala
 115 120 125
 Gly Val Pro Leu Gly Val Met Leu His Gln Ala Leu Arg Asp Met Gly
 130 135 140
 Lys Thr Ser Trp His Tyr Gly Ile Ser Ile Ile Arg Asp Arg Gly Ile
 145 150 155 160
 Asp Gly Ala Ala Leu Asp Val Ile Glu Glu Arg His Gly Thr Ser Gly
 165 170 175
 Ile Val Phe Val Asp Gly Trp Thr Gly Lys Gly Ala Ile Thr Gly Glu
 180 185 190
 Leu Val Arg Ala Leu Lys Asp Arg Pro Gly Tyr Pro Glu Gln Pro Arg
 195 200 205
 Leu Val Val Leu Ala Asp Pro Cys Gly Cys Ser Trp Leu Ala Ala Ser
 210 215 220
 Asp Asp Asp Trp Leu Ile Pro Phe Gly Ile Met Gly Ala Pro Val Ser
 225 230 235 240
 Gly Leu Ile Ser Arg Ser Val Trp Ser Ser Glu Gly Leu His Gly Cys
 245 250 255
 Met Val Cys Glu His Leu Ser Glu Phe Glu Cys Ser Arg Met Leu Val
 260 265 270
 Asp Thr Val Ala His Phe Arg Lys Lys Leu Thr Pro Ser Ser Leu Ala
 275 280 285
 Thr Leu Ser Trp Asn Met Glu Ser Ala Arg Val Leu Trp Gln Thr Ser
 290 295 300
 Arg Asp Val Ile Ala Phe Leu Ala Asp Glu Phe Lys Val Asp Ser Val
 305 310 315 320
 Asn Arg Ile Lys Pro Gly Ile Ala Glu Ala Thr Arg Ala Val Leu Arg
 325 330 335
 Arg Val Pro Asp His Val Phe Val Arg Ser Ile Asp Asp Pro Asp Val
 340 345 350
 Ala Leu Leu Val Gly Leu Ala Arg Glu Lys Gly Ile Val Val Thr Glu
 355 360 365
 Met Gly Gly Thr Leu Gly Gln Tyr Arg Ala Val Thr Ile Ile Lys Lys
 370 375 380
 Val Leu
 385

<210> 11028

<211> 555

<212> PRT

<213> Enterobacter cloacae

<400> 11028

Leu Arg Arg Lys Gln Arg Glu Arg Leu Met Ser Gln Asn Ala Leu Leu
 1 5 10 15
 Glu Glu Lys Ile Ile Arg Leu Val Leu Ser Glu Leu Gly His Pro Val
 20 25 30
 Glu Gly Glu Arg Leu Leu Leu Leu Ser Gln Asp Pro Ser Leu Thr Glu
 35 40 45
 Glu Ile Met Arg Leu Lys Glu Arg Ile Glu Ser Leu Ala Gln Gly Leu
 50 55 60
 Ser Ala Arg Val Ser Glu Gly Asp Asn Asp Ala Glu Ile Ala Ala Ser
 65 70 75 80
 Ser Ala Ser Ser Leu Ser Asp Gln Gln Gln Thr Val Val Ser Val Ala
 85 90 95
 Asp Asn Pro Gly Ile Asp Ala Thr Asp Thr Ser Ala Leu Gln Pro Leu
 100 105 110

Pro Glu Asn Glu Pro His Pro Pro Phe Trp Lys Leu Met Pro Tyr Tyr
 115 120 125
 Glu Phe Asp Lys Pro Ala Gln Arg Glu Asp Glu Asn Leu Ser Ser Leu
 130 135 140
 Val Leu Lys Pro Gly Gln Ile Pro Thr Gly Gln Gln Arg Ala Ser Leu
 145 150 155 160
 Ala Val Pro Pro Ala Val Pro Pro Arg Ala Lys Ile Thr Ile Pro Asn
 165 170 175
 Ala Arg Ala Gly Glu Arg Phe Ser Ser Pro Val Ala Ile Val Leu Gly
 180 185 190
 Glu Gly Gln Gln Ala Thr Val Arg Asp Val Val Phe Pro Arg Asn Ile
 195 200 205
 Gly Leu Ser Phe Asp Lys Glu Gln Glu Leu Leu Thr Gly Thr Pro Thr
 210 215 220
 Glu Ser Gly Asp Ile Glu Leu Ser Val Ile Trp Ser Cys Thr Ser His
 225 230 235 240
 Asp Glu Cys Glu Thr Lys Gln Leu Phe Ile Ile Asn Pro Asp Pro Arg
 245 250 255
 Ser Leu Trp Lys Val Val Glu Pro Pro Ala Asp Ala Pro Tyr Pro Lys
 260 265 270
 Ser His Leu Asp Ala Ala Gly Leu Val Arg Gly Asp Ile Arg Ile Ala
 275 280 285
 Ala Ala Ser Arg Arg Gly Arg Ser His Glu His Ala Gly Ser Phe Arg
 290 295 300
 Asp Asp Asp Phe Tyr Ile Asn His Cys Gln Glu Thr Gly Trp Ser Val
 305 310 315 320
 Met Leu Val Ala Asp Gly Ala Gly Ser Ala Val Asn Ser Arg Glu Gly
 325 330 335
 Ser Arg Ile Ala Val Lys Thr Ala Gly Asp Tyr Leu Leu Asn Gln Leu
 340 345 350
 Ser Gly Val Lys Gly Val His Leu Lys Gln His Ile Thr Ala Trp Glu
 355 360 365
 Gly Ser Asp Gln Gln Ala Thr Ile Asn Ala Met Leu His His Phe Lys
 370 375 380
 Gln Ala Ala Thr Leu Ala Val Asn Ser Ile Gln Asn Glu Ala Ile Cys
 385 390 395 400
 Ala Glu Gln Pro Val Lys Ser Tyr Ser Thr Thr Leu Leu Ala Thr Val
 405 410 415
 Ala Leu Arg Thr Asp Asn Glu Leu Phe Ala Ala Ala Phe Trp Leu Gly
 420 425 430
 Asp Gly Ala Ile Gly Ala Tyr Ser Pro Ser Gly Lys Val Arg Ile Leu
 435 440 445
 Gly Asn Pro Asp Ser Gly Glu Tyr Ala Gly Gln Thr Arg Phe Leu Asp
 450 455 460
 Gln Ser Ile Ile Ala Asp Pro Ser Phe Ser Gly Arg Ile Ser Val Gly
 465 470 475 480
 Lys Trp Asn Asp Val Ser His Leu Ile Leu Met Thr Asp Gly Val Ser
 485 490 495
 Asp Pro Leu Phe Glu Thr Asp Asn Gly Leu Arg Ser Asp Glu Lys Trp
 500 505 510
 Thr Arg Leu Val Asp Glu Leu Asn Pro Val Leu Thr Asp Ala Ser Ile
 515 520 525
 Ala Pro Glu Arg Leu Gly Asp Trp Leu Asn Phe Phe Ser Thr Gly Asn
 530 535 540
 His Asp Asp Arg Thr Ile Ala Val Leu Trp
 545 550 555

<210> 11029

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 11029

Phe Glu Lys Arg Gly Val Cys Pro Glu Leu Leu Pro Gly Ile Cys Leu
 1 5 10 15
 Ser Arg Gly Glu Pro Phe Phe Met Phe Phe Cys Phe Lys Leu Pro Val
 20 25 30
 Cys Ile Leu Phe Gly Pro Gly Arg Pro Leu Leu Leu Val Pro Val Leu
 35 40 45
 Ser Lys Gly Ile Leu Thr Leu His Ile Asn Gln Leu Leu Leu Pro Pro
 50 55 60
 Ala Lys Ile Phe Gly Val Ala Leu Ser Phe Ser
 65 70 75

<210> 11030

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 11030

Arg Leu His Leu Phe Val Lys Val Asn Asp Leu Cys Val Ala Val Phe
 1 5 10 15
 Leu Asp Arg Asp Arg Ser Ile Ser Ala Lys Leu Thr Phe Asp His Leu
 20 25 30
 His Pro Ser Glu Arg Val Ala Ala Leu Arg Ile Asp Leu Pro Asp Ile
 35 40 45
 Glu Tyr Glu Ile Ser Gln Val Gln Leu Gly Arg Arg Lys Thr Thr Tyr
 50 55 60
 Ser Glu Cys Ile Glu Ser Leu Ile Ile Asp Glu Thr Ser Ser Arg Glu
 65 70 75 80
 Trp Leu Tyr His Pro Leu Met His Glu Leu Glu Ser Glu Pro Leu Gln
 85 90 95
 Glu Tyr Arg Gly Arg Glu Pro Ser Glu Glu Gly Pro Leu Leu Gln Arg
 100 105 110
 Leu Ala Asp Cys Lys Met Lys Leu Pro Asp Ile Leu Pro Gly Ser His
 115 120 125
 Asn Ala Leu Val Arg Leu Gln Gln Asp Thr Ile Val Cys Leu Cys Arg
 130 135 140
 Leu Thr Val Arg Ala Tyr Asp Ile Ala Gln Thr Asp Glu Phe Pro Leu
 145 150 155 160
 Phe Leu Arg Tyr Phe Arg Leu His Cys Leu Glu Asn Ser Glu His Val
 165 170 175
 Ser Tyr Glu Arg Leu Ile Cys Trp Gln Glu Met Ile Ser Lys Thr Gln
 180 185 190
 Glu Gly Gln Ser Leu Thr Gln Asn Glu Leu Glu Tyr Leu His Glu Ile
 195 200 205
 Val Arg Ile Ala Leu Tyr Asn His Arg Leu Asn Asn Val Ser Ile Ser
 210 215 220
 Asp Val Lys Asn His Asp Thr Gly Lys Glu Ser Ser Arg Val Glu Pro
 225 230 235 240
 Gln Asn Tyr Ser Leu Leu
 245

<210> 11031

<211> 87

<212> PRT

<213> Enterobacter cloacae

<400> 11031

Thr Arg Ser Phe Arg Ser Gly Leu Ser Ser Ser Ala Ile Arg Val Phe
 1 5 10 15
 Thr Phe Phe Ala Ala Ala Ser Val Asn Ser Ser Gly Asn Ala Thr Ser

20 25 30
 Ser Leu Ile Leu Cys Ser His Glu Tyr Cys Asp Cys Tyr Trp Ala Lys
 35 40 45
 Ile Thr Gln Phe Phe Leu Ser Leu Ser Asn Thr Leu Val Ile His Ser
 50 55 60
 Ser Ile Leu Leu Gln Gly Leu Phe Ser Phe Leu Phe Arg Gln Gly Thr
 65 70 75 80
 Gly Lys Asn Gly Gly Val
 85

<210> 11032

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 11032

Arg Gly Ile Val Val Glu His Leu Leu Cys Ser Leu Ser Gly Ala Leu
 1 5 10 15
 Gly Gly Arg Ala Glu Gly Arg Glu Val Thr Glu Gly Leu Arg His Leu
 20 25 30
 Phe Asp Ala His Arg Val His Pro Phe Asn Arg Tyr Ser Gln Arg Arg
 35 40 45
 Glu Leu Val Tyr Leu Pro Phe Gly Ile Thr Ala Ala Pro Gly Glu Tyr
 50 55 60
 Gln Ile Gly Leu
 65

<210> 11033

<211> 324

<212> PRT

<213> Enterobacter cloacae

<400> 11033

Ile Cys Ile Ser Arg Gly Ile Met Lys Ile Pro Lys Lys Lys Thr Gly
 1 5 10 15
 His Phe Ile Leu Ser Ala Gln Thr Lys Arg Glu Asn Ala Met Asp Asn
 20 25 30
 His Ile Ser Ser Arg Ala Leu Leu His Arg Arg Asp Val Ile Lys Asn
 35 40 45
 Asn Pro Arg Phe Gly Glu Ala Ile Thr Glu His Tyr Arg Ile Asn Asp
 50 55 60
 Val Ile Tyr Lys Lys Gln Pro Leu Phe Tyr Lys Thr Met Leu Gln Glu
 65 70 75 80
 Ser Arg Phe Asn Ile Ile Leu Ser Met Cys Cys Phe Val Phe Gly Asn
 85 90 95
 Gln Ala Glu Ser Val Ser Glu Ile Lys Ala Leu Cys Thr Arg Tyr Asn
 100 105 110
 Ile Ala Ser Pro Asn Ser Val Ile Ala Ile Ile Thr Ile Leu Lys Thr
 115 120 125
 Thr Gly Arg Ile Lys Thr Trp Arg Cys Ser Glu Asp Arg Arg Lys Thr
 130 135 140
 Lys Ile Ala Pro Thr Glu Lys Gly Leu Asp Glu Leu Lys Arg Tyr Met
 145 150 155 160
 Ser Gly Ala Phe Thr Pro Val Ser Ile Leu Tyr Pro Ala Phe Asn Ile
 165 170 175
 Asn Val Asn Leu Leu Asp Asn Asp Ile Leu Arg His Asn Phe Phe Arg
 180 185 190
 Arg Ala Ala Glu Tyr Leu Phe Arg Gly Leu Thr Phe Arg Lys Val Leu
 195 200 205
 Pro Glu Val Gly Leu Phe Ile Asp Lys Asp Gly Gly Arg Met Ile Met
 210 215 220

Leu Tyr Leu Tyr Leu Gln Ala Ile Lys Asn Lys Thr Ala His Gly Ala
 225 230 235 240
 Ile Ile Ala Tyr Ser Ala Ser Thr Leu Ala Lys Glu Phe Phe Val Ser
 245 250 255
 Arg Ile His Val Asn Arg Ile Ile Lys Ser Ala Gln Glu Ala Gly Tyr
 260 265 270
 Leu Lys Asp Arg Gly Asp Gly Arg Met Ser Ile Tyr Pro Ala Phe Ile
 275 280 285
 Glu Leu Val Glu Asn Tyr Ala Gly Leu Tyr Phe Ala Tyr Val Thr His
 290 295 300
 Tyr Ile Asn Val Val Pro Lys Glu Arg Arg His Ala Val Asn Met Thr
 305 310 315 320
 Pro Thr Leu

<210> 11034

<211> 170

<212> PRT

<213> Enterobacter cloacae

<400> 11034

Lys Glu Glu Ala Asn Met Arg Ile Ile Leu Met Leu Cys Cys Phe Leu
 1 5 10 15
 Val Gln Ser Leu Ser Trp Ala Gly Glu Leu Pro Lys Pro Val Gly Lys
 20 25 30
 Pro Ile Leu Thr Ile Asn Gly Asn Ile Glu Asn Thr Asn Glu Asn Gly
 35 40 45
 Asn Ala Val Phe Asp Ile Ala Ser Leu Glu Lys Leu Gly Met Val Ser
 50 55 60
 Phe Gln Thr Thr Ser Pro Trp Tyr Asn Gly Arg Thr Lys Phe Glu Gly
 65 70 75 80
 Ile Pro Met Arg Lys Leu Met Glu Tyr Val Gly Ala Lys Gly Ser Val
 85 90 95
 Leu Asn Val Ile Ala Leu Asn Asp Tyr Thr Thr Val Ile Pro Leu Ser
 100 105 110
 Asp Phe Gln Lys Tyr Asn Ala Ile Leu Ala Leu Lys Val Asn Gly Glu
 115 120 125
 Tyr Met Arg Ile Arg Asp Lys Gly Pro Ser Phe Ile Val Tyr Pro Tyr
 130 135 140
 Asp Ser Leu Pro Glu Leu Asn Asn Gln Ile Tyr Tyr Ser Arg Ser Ala
 145 150 155 160
 Trp Gln Val Ser Lys Met Lys Ile Glu
 165 170

<210> 11035

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 11035

Leu Asn Arg Phe Ser Ser Met Asn Leu Ser Arg Gln Glu Gln Arg Thr
 1 5 10 15
 Leu His Val Leu Ala Lys Gly Gly Arg Ile Val His Val Arg Asp Thr
 20 25 30
 Ser Gly Arg Val Thr Ala Val Glu Cys Tyr Ser Arg Glu Gly Leu Leu
 35 40 45
 Leu Ala Asp Cys Thr Leu Ala Val Phe Lys Lys Leu Lys Thr Lys Lys
 50 55 60
 Leu Ile Lys Ser Val Asn Gly Gln Pro Tyr Arg Ile Asn Thr Thr Gly
 65 70 75 80
 Leu Asn Asn Val Arg Ala Gln Pro Asp Asn Arg

85

90

<210> 11036
 <211> 112
 <212> PRT
 <213> Enterobacter cloacae

<400> 11036

Ser	Ser	Ile	Ser	Ser	Ser	Thr	Lys	Ile	Gly	Asn	Thr	Arg	Ser	Phe	Lys
1			5						10					15	
Val	Ser	Val	Val	Ser	Ser	Asn	Met	Ala	Arg	Ser	Ala	Gly	Asp	Leu	Arg
			20					25					30		
Arg	Arg	Arg	Gly	Arg	Ala	Ile	Lys	Ser	Val	Met	Val	Cys	Leu	Met	Phe
			35				40					45			
Val	Glu	Gln	Arg	Gly	Ile	Val	Tyr	Leu	Lys	Ala	Gly	Ser	Gly	Val	Leu
	50					55					60				
Leu	Lys	Leu	Ser	Phe	Arg	Phe	Ser	Lys	Ser	Thr	Asn	Ile	Arg	Cys	Met
65					70					75					80
Tyr	Leu	Val	Tyr	Ile	Ile	Asn	Leu	Ile	Leu	Met	Phe	Ser	Val	Ala	Cys
				85					90					95	
Asn	Ile	Gly	Glu	Ala	Ser	Ile	Leu	Val	Trp	Asp	Tyr	Lys	Tyr	Lys	
			100					105					110		

<210> 11037
 <211> 256
 <212> PRT
 <213> Enterobacter cloacae

<400> 11037

Arg	Lys	Ala	Asn	Asn	Ile	Pro	Arg	Cys	Pro	Ala	Gly	Phe	Ala	Ala	Phe
1			5						10					15	
Cys	His	Asn	Ile	Leu	Arg	Asp	Ala	Glu	Gly	Gly	Arg	Val	Lys	Gly	Lys
			20					25					30		
Gly	Leu	Phe	Ile	Leu	Ile	Val	Ile	Ala	Gly	Ile	Val	Thr	Val	Gly	Tyr
			35				40					45			
Arg	Trp	Leu	Pro	Ser	Gln	Tyr	Asn	Pro	Phe	Val	Pro	Leu	Thr	Leu	Asp
	50					55					60				
Asp	Pro	Pro	Gly	Lys	Ile	Thr	Gln	Phe	Lys	Leu	Arg	Arg	Leu	Thr	Pro
65					70					75					80
Gln	Ala	Cys	Glu	Ser	Leu	Leu	Thr	Gln	Ala	Asn	Gln	Arg	Arg	Leu	Ile
				85					90					95	
Arg	Thr	Gln	Ala	Val	Ala	Asp	Ser	Ala	Gly	Glu	Cys	Pro	Leu	Ser	Asn
			100					105					110		
Val	Val	Arg	Val	Arg	Asp	Phe	Gly	Pro	Val	Ser	Leu	Asn	Ser	Ser	Phe
			115				120					125			
Leu	Ala	Ser	Cys	Pro	Leu	Ala	Leu	Ser	Ser	Ala	Leu	Phe	Val	Ser	Gln
	130					135					140				
Gln	Ala	Arg	Pro	Leu	Thr	Lys	Thr	Trp	Thr	Gly	Ser	Glu	Leu	Ala	Arg
145					150					155					160
Ile	Glu	His	Leu	Gly	Ser	Phe	Ala	Cys	Arg	Asn	Ile	Tyr	Ser	Arg	Pro
				165					170					175	
Asp	Ala	Arg	Arg	Ser	Glu	His	Ala	Thr	Ala	Asp	Ala	Leu	Asp	Ile	Ser
			180					185					190		
Ala	Phe	Arg	Leu	Ala	Asn	Gly	Gln	Arg	Val	Thr	Val	Leu	Asn	Gly	Trp
			195				200					205			
Lys	Ala	Glu	Lys	Thr	Gln	Pro	Trp	Leu	Gln	Ala	Leu	Leu	Ser	Ala	Ser
	210					215					220				
Cys	Gly	Tyr	Tyr	Gly	Asn	Gly	Leu	Gly	Pro	Asp	Tyr	Asn	Ala	Ala	His
225					230					235					240
Ala	Asn	His	Phe	His	Leu	Gly	Met	Arg	Gly	Tyr	Gly	Leu	Cys	Arg	
				245					250					255	

<210> 11038
 <211> 117
 <212> PRT
 <213> Enterobacter cloacae

<400> 11038
 Leu Ser Ser Ala Gly Ala Asn Ile Phe Leu Leu Thr Gly Cys Pro Gly
 1 5 10 15
 Pro Gly Asp Arg Met Val Asp Arg Glu Ser Thr Thr Ala Phe Ile Lys
 20 25 30
 Asp Asn Gln Val Cys Val Val Ser Pro Leu Glu Pro Gln Glu Arg Ile
 35 40 45
 Thr Ala Ile Gln Ile Asn Ser Asp Asn Ser Asp Ser Leu His Asn Ile
 50 55 60
 Phe Asp Asp Lys Pro Val Tyr Val Pro Lys Gly Glu Cys Leu Pro Val
 65 70 75 80
 Phe Gly Phe Lys Phe Thr Pro Gly Glu Arg Tyr Asn Phe Ala Tyr Asp
 85 90 95
 Val Gln Ser Ala Lys Ser Gly Ala Tyr Leu Val Thr Ala Glu Phe Ser
 100 105 110
 Tyr Pro Lys Glu
 115

<210> 11039
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 11039
 Arg Pro Thr Leu Thr Met Val Lys Glu Arg Leu Met Phe Arg Trp Gly
 1 5 10 15
 Ile Ile Phe Leu Val Ile Ala Leu Ile Ala Ala Ala Leu Gly Phe Gly
 20 25 30
 Gly Leu Ala Gly Thr Ala Ala Trp Ala Ala Lys Ile Val Phe Val Val
 35 40 45
 Gly Ile Ile Leu Phe Leu Val Ser Leu Phe Thr Gly Arg Arg Arg Pro
 50 55 60

65

<210> 11040
 <211> 71
 <212> PRT
 <213> Enterobacter cloacae

<400> 11040
 Arg Tyr Arg Arg Asp Val Lys Arg Val Thr Leu Glu Ala Ile Pro Pro
 1 5 10 15
 Lys Asn Thr Asp Lys His Met Trp Ile Gly Phe Asn Leu Ser Gln Asp
 20 25 30
 Leu Pro Asn Gly Ile Lys Asn Ile Ser Val Ala His Thr Ala Phe Arg
 35 40 45
 Glu Leu Asp Phe Lys Val Leu Asn Thr Arg Arg Val Met Leu Glu Val
 50 55 60
 Lys Arg Ala Asp Gly Ser
 65 70

<210> 11041
 <211> 63
 <212> PRT

<213> Enterobacter cloacae

<400> 11041

```

Met Lys His Leu Gly Lys His Leu Leu Met Thr Phe Ser Leu Met Ala
1          5          10          15
Thr Leu Phe Thr Pro Ala Ser Trp Ser Ala Asp Glu Cys Leu Leu Thr
20          25          30
Leu Thr Pro Val Leu Ser Asp Arg Gln Phe Asn Tyr Val Gly Asp Thr
35          40          45
Val Thr Leu Glu Ser Asn Leu Met Trp Glu Val Leu Thr Lys
50          55          60

```

<210> 11042

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 11042

```

Val Asn Ser His His Ala Lys Ile Leu Arg His Leu Ser Cys Leu Val
1          5          10          15
Gly Lys Pro Asp Ile His Arg Ile Ser Arg Asn Leu Leu Val Lys Tyr
20          25          30
Ser Gly Ile Gly Glu Leu Gln Ser Asp Ile Pro Phe Phe Tyr Phe Val
35          40          45
Met Phe Leu His Phe Ser Glu Phe Ser Phe Leu Pro Thr Glu Tyr Ile
50          55          60
Leu Ser Thr Leu
65

```

<210> 11043

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 11043

```

Lys Ala Ala Ile Met Ser Thr Arg Arg Phe Ser Thr Thr Ala Leu Ala
1          5          10          15
Val Val Leu Ala Leu Thr Phe Ala Thr Ala Pro Ala Met Ala Asn Pro
20          25          30
Gly Asn Gly Asn Gly Gly Gly His Gly Asn Gly Gly Gly Gln Gly Asn
35          40          45
Ser Gly Asn His Gly Asn Gly Asn Ser Gly Asn His Gly Asn Lys His
50          55          60
Asn Asn Gly Gln Asp Asn Pro Gly Lys Ser Asp Lys Ser Phe Lys Asn
65          70          75          80
Ser Lys Asp Val Gly Asn Asp Val Asp Ala Arg Val Ser Phe Asp His
85          90          95
Ala Arg His Leu Ala Leu Asn Tyr Gly Leu Thr Gly Tyr Asp Ser Leu
100          105          110
Pro Pro Gly Ile Ala Lys Asn Leu Ala Arg Gly Lys Pro Leu Pro Pro
115          120          125
Gly Ile Ala Lys Lys Thr Val Pro Ala Asp Met Leu Gly Gln Leu Pro
130          135          140
Ser Tyr Pro Gly Tyr Glu Trp Arg Val Val Gly Tyr Asp Leu Val Leu
145          150          155          160
Ile Ala Leu Ser Thr Ala Ile Val Thr Ser Val Ile Asn Gly Val Phe
165          170          175
Lys

```

<210> 11044

<211> 85
 <212> PRT
 <213> Enterobacter cloacae

<400> 11044
 Ala Val Ile Gln Gly Gln Met Ala Gly Met Ile Glu Ala Tyr Ala Ser
 1 5 10 15
 Ile His Ile Ile Thr Asp Ile Phe Ala Val Phe Lys Ala Leu Ile Arg
 20 25 30
 Phe Pro Arg Val Ile Leu Thr Val Ile Val Leu Ile Thr Met Val Thr
 35 40 45
 Arg Val Pro Val Thr Met Ile Ala Ala Ile Thr Leu Ser Ala Thr Val
 50 55 60
 Ser Val Thr Thr Ala Ile Pro Val Thr Arg Ile Ser His Gly Arg Ser
 65 70 75 80
 Arg Cys Lys Arg
 85

<210> 11045
 <211> 69
 <212> PRT
 <213> Enterobacter cloacae

<400> 11045
 Gly Ser Ser Asp Phe Val Arg Ile Met Pro Leu Ala Lys Thr Lys Ser
 1 5 10 15
 Ile His Arg Phe Arg Arg His Ala Arg Tyr Ala Pro Cys Arg Phe Lys
 20 25 30
 Lys Leu Ile Leu Leu Met Gln Ser Leu Leu Leu Ile Leu Ile Ile Tyr
 35 40 45
 Leu Phe Leu Phe Ile Ser Gly Asn Phe Tyr Asn Glu Thr Ser Val Glu
 50 55 60
 Lys Phe His Glu
 65

<210> 11046
 <211> 75
 <212> PRT
 <213> Enterobacter cloacae

<400> 11046
 Leu Lys Ser Arg Val Lys Lys Arg Thr Ile Lys Ala Pro Arg Lys Trp
 1 5 10 15
 Gly Leu Phe Asn Thr Leu Ala Ser Ser Val Ser Phe Val Arg Tyr Leu
 20 25 30
 Tyr Leu Met Asp Asn Ser Gln Asn Arg Leu Asp Ile Ala Phe Glu Leu
 35 40 45
 Cys Ile Tyr Ile Gly Pro Arg Met Gly Gln Ile Arg Arg Tyr His Arg
 50 55 60
 Asn Val Asn Tyr Trp Ser Tyr Ser Leu Leu
 65 70 75

<210> 11047
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 11047
 Val Pro Gln Arg Ala Gln Pro Leu Ser Phe Val Ala Ser Gly Gln Ala
 1 5 10 15
 Gly Asn Ser Lys Glu Thr Ala Ser Asp Lys Leu Glu Glu Gly Gly Asp

```

      20      25      30
Asp Val Lys Ser Ser Trp Pro Leu Arg Val Gly Leu His Thr Cys Tyr
      35      40      45
Asn Gly Ala Tyr Lys Glu Lys Arg Pro Arg Glu Ser Lys Arg Thr Ser
      50      55      60

```

65

<210> 11048

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 11048

```

Gly Arg Ser Ser Val Gly Arg Ala Pro Val Ser Lys Thr Gly Cys Arg
1      5      10      15
Glu Phe Glu Ser Leu Arg Pro Cys His Ile Glu Ser Phe Ala Ser Ala
      20      25      30
Lys Asp Phe Phe Leu Pro Ala Lys Gln Leu Asn Thr Phe Leu Lys Asn
      35      40      45
Lys Gln Pro Ala Phe Pro Gln Ala Phe Ala Leu Ile Gln Tyr Ala Gly
      50      55      60
Phe
65

```

<210> 11049

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 11049

```

Leu His His Leu Leu Leu Arg Thr Gln Glu Asn Phe Arg Val Asn Leu
1      5      10      15
Lys Arg Cys Thr Ala Lys Phe Cys Ser Leu Lys Ile Trp Ile Lys Leu
      20      25      30
Lys Ile Glu Thr Thr His Ser Ser Cys Val Phe Glu Ser Leu Lys Phe
      35      40      45
Ser Gln Ser Glu Val Lys His Leu Arg Val Val Arg Leu Ser Asp
      50      55      60

```

<210> 11050

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 11050

```

Val Ala Asp Pro Leu Tyr Lys Arg Tyr Ala Val Thr Pro Arg Arg Cys
1      5      10      15
Ser His Cys Leu Tyr Val His Gly Phe Arg Phe Phe Thr Pro Leu
      20      25      30
Ala Gly Val Leu Phe Ala Phe Pro Ser Arg Tyr Trp Phe Thr Ile Gly
      35      40      45
Gln Ser Gly Val Phe Ser Leu Gly Gly Trp Ser Pro His Ile Gln Thr
      50      55      60
Gly Tyr His Val Ser Arg Pro Thr Leu Arg Val His Ser Lys Cys Val
65      70      75      80
Phe Val Tyr Gly Thr Ile Thr Leu Tyr Arg Arg Thr Phe Gln Thr Val
      85      90      95
Pro Leu Thr His Lys Leu Ile Gln Thr Pro Gly Cys Ser Pro Phe Ala
      100      105      110
Arg Arg Tyr Trp Gly Asn Leu Gly

```

115

120

<210> 11051
 <211> 75
 <212> PRT
 <213> Enterobacter cloacae

<400> 11051

Leu	Pro	Phe	Pro	Val	Val	Ile	Pro	Leu	His	Gln	Ala	Val	Ser	Gln	Thr
1				5					10					15	
Leu	Leu	Thr	Arg	Pro	Pro	Leu	Val	Ser	Lys	Ala	Ala	Ser	Cys	Phe	Leu
			20					25					30		
Leu	Pro	Phe	Asp	Leu	His	Val	Leu	Gly	Leu	Pro	Pro	Ala	Phe	Asn	Leu
		35					40					45			
Ser	His	Asp	Gln	Thr	Leu	Gln	Phe	Lys	Ser	Leu	Met	Leu	Asn	Glu	Leu
	50					55					60				
Asn	Phe	Val	Met	Asn	Tyr	Val	Phe	Thr	Arg						
65					70				75						

<210> 11052
 <211> 73
 <212> PRT
 <213> Enterobacter cloacae

<400> 11052

Gly	Gly	Gln	Gly	Ser	Ala	Ser	Met	Lys	Asn	Lys	Asp	Glu	Gln	Thr	Gly
1				5					10					15	
Leu	Val	Gly	Leu	Ala	Ile	Gly	Ala	Ala	Val	Ile	Gly	Leu	Val	Ser	Ser
			20					25					30		
Gln	Lys	Ile	Ile	Asn	Arg	Glu	Ser	Ile	Val	Asp	Glu	Leu	Val	Arg	Leu
		35				40					45				
Gly	Arg	Gln	Lys	Gly	Asp	Gly	Val	Glu	Asp	Glu	Val	Phe	Leu	Lys	Ala
	50					55					60				
Ala	Glu	Leu	Val	Arg	Lys	Gly	Val								
65					70										

<210> 11053
 <211> 142
 <212> PRT
 <213> Enterobacter cloacae

<400> 11053

Ala	Met	Ala	Asp	Ile	Arg	His	Ala	Gln	Cys	His	Cys	Gly	Ala	Val	Lys
1				5					10					15	
Phe	Thr	Val	Glu	Leu	Thr	Asp	Gly	Leu	Asn	Thr	Ala	Arg	Arg	Cys	Ser
			20					25					30		
Cys	Ser	Phe	Cys	Arg	Met	Arg	Gly	Ala	Val	Val	Val	Ser	Ala	Pro	Leu
		35					40					45			
Thr	Gly	Ile	Lys	Val	Thr	Gln	Gly	Ala	Asp	Thr	Leu	Thr	Glu	Tyr	Arg
	50					55					60				
Phe	Asn	Thr	Gly	Thr	Ala	Arg	His	Phe	Phe	Cys	Ser	Ile	Cys	Gly	Ile
65					70					75				80	
Tyr	Thr	Phe	His	Gln	Arg	Arg	Ser	Asn	Pro	Asn	Glu	Tyr	Gly	Val	Asn
			85					90						95	
Val	Ala	Cys	Leu	Glu	Asn	Val	Thr	Pro	Phe	Asp	Phe	Pro	Glu	Val	Ala
			100					105					110		
Val	Met	Asp	Gly	Val	Asn	His	Pro	Met	Asp	Gly	Asp	Ser	Gly	Val	Phe
		115					120					125			
Gly	Tyr	Leu	Ser	Phe	Arg	Lys	Glu	Gln	Thr	Lys	Gln	Arg			
	130					135						140			

<210> 11054
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 11054
 Gln His Arg Arg Ile Gly Leu Thr Asn Asn Glu Ser Leu Ser Gly Tyr
 1 5 10 15
 Ser Lys Ala Val His Phe Ala Gly Phe Ser Ile Thr Pro Gln Lys Pro
 20 25 30
 Ile Cys Leu Lys Val His Tyr Ser Ser Ser Thr Thr Ile Thr Ile Asn
 35 40 45
 Ala Ala Arg Asn Arg Pro Phe Tyr Arg Leu Leu Arg Arg Leu Leu Ala
 50 55 60

65

<210> 11055
 <211> 453
 <212> PRT
 <213> Enterobacter cloacae

<400> 11055
 Arg Ser Leu Gln Asp Gln Ile Val Ala Lys Thr Leu Leu Arg Ser Gly
 1 5 10 15
 Asn Leu Asp Asp Phe Gln Ala Val Gly Gly Gly Gly Gln Ala Val Phe
 20 25 30
 Glu Ser Ala Leu Gln Ile Arg Glu Ala Leu Arg Leu Arg Lys Gln Gln
 35 40 45
 Ala Ile Val Asp Cys Leu Ala Ile Pro Gln Val Tyr Asp Gly Gly Asp
 50 55 60
 Arg Val Asp Trp Tyr Ser Pro Val Glu Gly Thr Val Ser Ser Trp Lys
 65 70 75 80
 Ala Ala Asp Glu Asp Asp Arg Tyr Arg Ala Leu Arg Tyr Leu Glu Asn
 85 90 95
 Thr Leu Ala Ser Val Glu Ser Leu Ser Lys Lys Cys Leu Gln Ser Pro
 100 105 110
 Lys Thr Ala Gln Gln Leu Phe Gly Ser Leu Leu Ser Lys Ala Phe Gln
 115 120 125
 Phe Pro Gly Glu Asn Phe Val Phe Leu Val Asp Gly Lys Pro Val Ile
 130 135 140
 Cys Phe Trp Gly Phe Val Asn Leu Asn Glu Asn Ala Arg Glu Asp Val
 145 150 155 160
 Leu Asp Cys Leu Arg Glu Ser Leu Val Pro Glu Pro Glu Pro Val Val
 165 170 175
 Ile Asn Glu Pro Glu Pro Glu Gln Glu Glu Pro Ala Pro Val Val
 180 185 190
 Thr Phe Glu His Ala Asp Ala Pro Leu Ile Thr Pro Val Ala Ser Val
 195 200 205
 Arg Ile Thr Glu Asp Glu Leu Tyr Thr Pro Glu Pro Val Arg Met Asn
 210 215 220
 Ala Ala Pro Pro Glu Pro Ala Pro Val Ala Met Gln Lys Lys Arg Arg
 225 230 235 240
 Ser Pro Leu Trp Leu Leu Pro Val Ala Ala Val Ile Ile Ala Ala Ile
 245 250 255
 Ala Thr Pro Leu Leu Trp Pro Lys Gln Ala Pro Thr Ala Ala Pro Val
 260 265 270
 Ala Thr Pro Ala Pro Val Pro Val Ala Ile Ala Pro Ala Pro Val Lys
 275 280 285
 Thr Val Glu Pro Leu Glu Leu Lys Leu Pro Leu His Gln Ala Glu Val
 290 295 300

Val Glu Pro Lys Val Lys Thr Pro Ala Pro Ala Ala Glu Pro Val Val
 305 310 315 320
 Ile Thr Ala Ile Pro Lys Asp Ala Met Val Met Glu Ala Asn Gln Val
 325 330 335
 Lys Ala Gly Leu Thr Arg Phe Leu Asn Gly Thr Trp Arg Ala Phe Leu
 340 345 350
 Asp Val Gln Asp Pro Leu Thr Gly Lys Pro Pro Ser Leu Arg Tyr Gln
 355 360 365
 Ile Gln Asn Asn Lys Gly Phe Ala Arg Val Val His Gly Asp Asn Ile
 370 375 380
 Val Cys Arg Val Asp Val Phe Ser Gly Leu His Ser Lys Gly Glu Leu
 385 390 395 400
 Leu Ile Lys Thr Arg Gly Asn Ala Arg Cys Thr Asp Gly Ser Arg Tyr
 405 410 415
 Pro Met Pro Glu Val Thr Cys Lys Ala Gly Ala Ser Asp Val Ala Glu
 420 425 430
 Cys Thr Ala Arg Tyr Asp Ala Asn Thr Ile Val Pro Leu Thr Phe Lys
 435 440 445
 Lys Ala Gly Val
 450

<210> 11056

<211> 749

<212> PRT

<213> Enterobacter cloacae

<400> 11056

Thr Glu Tyr Ser Gly Arg Ser Pro Thr Gln Arg Gln Pro Leu Leu Asp
 1 5 10 15
 Arg Gln Arg Glu Arg Ile Pro Gln Met Thr Ala Thr Thr Ala Thr Thr
 20 25 30
 Gln Ala Leu Ile Gly Trp Ile Asn Glu Thr Arg Gln His Ala Pro Met
 35 40 45
 Leu Asp Asn Glu Ala Asp Ala Leu Leu Ala Arg Leu Asn Ala Leu Ser
 50 55 60
 Ala Arg Glu Glu Ala Leu Asp Arg Ala Leu Val Ser Gln Gly Ser Ile
 65 70 75 80
 Gly Leu Tyr Gly His Ser Gln Ala Ala Lys Ala His Leu Leu Ala Ala
 85 90 95
 Leu Cys Gly Ser Gly Asp Glu Arg Leu Asn Val Thr Pro Gly Gln Arg
 100 105 110
 Thr Phe Asp Tyr Phe Ser His Ile Asn Pro Gly His Ala Pro Thr Asn
 115 120 125
 Met Ala Val Arg Phe Ser Arg Ala Ser Arg Glu Val Ala Asp Asp Ala
 130 135 140
 Phe Pro Leu Arg Leu Arg Leu Val Thr Glu Ala Glu Leu Val Gln Leu
 145 150 155 160
 Phe Ile Ala Arg Thr Thr Leu Asp Pro Gln Ile Arg Ala Val Asp Lys
 165 170 175
 Ser Val Ile Glu Ala Arg Leu Glu Lys Trp Arg Ala Leu Arg Gln Pro
 180 185 190
 Gln Ser Val Pro Gly Met Thr Ala Arg Glu Val Ala Thr Ile Ala Arg
 195 200 205
 Phe Trp Gln Ser Val Val Pro Gly Ala Lys Gln His Ile Asp Asp Ala
 210 215 220
 Leu Trp His Gln Phe Ala Leu Leu Val Pro Ser Leu Asp Leu Ser Thr
 225 230 235 240
 Arg Ala Ser Val Trp Ser Leu Leu Trp Gly Glu Gln Gln Glu Leu Thr
 245 250 255
 Gln Gln Trp Leu Lys Phe Ala Gln Val Leu His Gln Thr Ser His Ala
 260 265 270

Ser Ala Leu Ala Ala Pro Leu Ser Leu Leu Val Asp Ser Phe Gly Leu
 275 280 285
 Pro Cys Glu Gly Phe Leu Thr His Gly Ala Phe Thr Val Pro Glu Ala
 290 295 300
 Gln Glu Thr Leu Leu His Pro Ile Lys Asn Gly Glu Leu Leu Asn Ala
 305 310 315 320
 Ile Ser Leu Pro Val Asp Val Leu Ala Ser Leu Thr Arg Glu Val Val
 325 330 335
 Leu Pro Val Glu Asn Cys Val Leu Asp Asn Val Asp Val Ile Asp Ile
 340 345 350
 Pro Ala Ile Pro Glu Glu Asn Thr Pro Leu Met Met Gln Ala Lys Cys
 355 360 365
 Leu Trp Leu Leu Glu His Tyr Arg Gln His Ile Gln Pro Asp Val Leu
 370 375 380
 Val Ile Cys Asn Ala Thr Ala His His Gln Gln Thr Ala Lys Thr Ala
 385 390 395 400
 Arg Leu Leu Gln Asn Trp Val Lys Glu Thr Gln Pro Val Glu Glu Ser
 405 410 415
 Ala Leu Pro Gly Leu Val Trp Ala Ile Thr Pro His Asp Ala Arg Phe
 420 425 430
 Thr Thr Lys Gln Asn Leu Asp Glu Ala Val Gln Gln Leu Leu Gly Gln
 435 440 445
 Pro Gly Leu Arg Trp Gly Thr Leu Gln Ala Leu Asp Ser His Ser Met
 450 455 460
 Gln Arg Val Ile Glu Trp Leu Ser Gln Ala Thr Leu Pro Ala Gln Arg
 465 470 475 480
 Gln Lys Arg Leu Arg Ala Leu Lys Arg Leu Leu Gln Glu Ser Leu Ser
 485 490 495
 Thr Leu Met Arg Pro Tyr Val Ala Pro Leu Thr Gln Glu Pro Gly Ala
 500 505 510
 Gly Arg Ala Met Ala Glu Lys Met Val Arg Thr Leu Gln Gly Ser Ala
 515 520 525
 Ala Arg His Gly Glu Leu Leu Glu Gly Leu Leu Pro Pro Leu Asn Ala
 530 535 540
 Phe Glu Thr Leu Leu Thr Val His Gln Pro Arg Glu Glu Gln Val Asn
 545 550 555 560
 Gly Leu Phe Asn Asp Val Ile Asp Leu Phe Ala Glu Glu Thr Gln Glu
 565 570 575
 Asn Pro Gly Ala Leu Gln Thr Lys Asp Lys Ala Arg Leu Ala His Asn
 580 585 590
 Val Trp Val Asn His Leu Arg Gln Trp Ser Arg Asn Asp Ala Ala Ala
 595 600 605
 Ala Arg Leu Gly Leu Asp Ala Glu Val Leu Gln Gln Ile Ala Asp Val
 610 615 620
 Leu Ile Val Thr Ser Tyr Arg Leu Asp Leu Pro Leu Gln Leu Gln Arg
 625 630 635 640
 Ile Ala Glu Lys Asp Lys Ser Ser Ala Ala Gln Leu His Ala Ala Thr
 645 650 655
 Gly Asn Phe Ile Ser Trp Leu Gly Tyr Glu Leu Thr Pro Val Ser Glu
 660 665 670
 Arg Pro Ala Ser Arg Ile Arg Lys Gly Glu Pro Ile Phe Val Thr Pro
 675 680 685
 Val Val Ser Ser Ala Ser Pro Arg Leu Thr Arg Leu Gly Glu Gln Pro
 690 695 700
 Val His Ala Ala Thr Ala Tyr Val Tyr Asp Trp Leu Val Ala Leu Tyr
 705 710 715 720
 Thr Arg Ala Ile Glu Asn Val Asp Tyr Gln Cys Pro Tyr Asp Val Gln
 725 730 735
 Pro Ala Ala Arg Lys Ala Leu Ser Ala Leu Leu Ser
 740 745

<210> 11057

<211> 1003

<212> PRT

<213> *Enterobacter cloacae*

<400> 11057

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Arg Ser Arg Lys Gln Val Ser Asp Pro Met Leu Val Asn Leu Cys Asp
1      5      10      15
Tyr Lys Gln Ser Val Thr Leu Ile Ala Asn Ser Gly Val Gln Phe Leu
20      25      30
Asp Phe Gly Leu Thr Pro Gln Asp Thr Ser Ser Asn Gly Arg Phe Val
35      40      45
Arg Lys Thr Ala Asn Gly Pro Leu Leu Arg Leu Asp Phe Asp Leu Val
50      55      60
Asn Gly Arg Tyr Thr Leu Pro Ala Thr Asp Gly Gly Gln Pro Glu Val
65      70      75      80
Val Lys Pro Glu Ser Thr Ile Pro Leu His Asn Ser Leu Asn Val Leu
85      90      95
Asp Gly Val Trp Leu Pro Leu Pro Phe Leu Arg Phe Asn Pro Pro Arg
100     105     110
Thr Phe Val Asp Gly Pro Asp Asn Trp Ala Arg Val Gln Val Arg Lys
115     120     125
Leu Ser Thr Pro Asp Ala Ala Gly Asn Thr His Arg Val Thr Val Ala
130     135     140
Leu Asp Ser Gln Ile Ala Glu His Ala Thr Ser Ala Leu Ser Pro Val
145     150     155     160
Glu Asn Asp Ile Leu Asn Gly Thr Arg Phe Ala Leu Ala Trp Arg Asp
165     170     175
Ser Glu Val Glu Ser Phe Leu Asp Gln Thr Trp Ile Asp Gly Trp Leu
180     185     190
Arg Glu Ala Phe Thr Gln Phe Ala Asp Gly Val Glu Lys Arg Ser Glu
195     200     205
Arg Glu Leu His Gln Ala Met Arg Ser Phe Glu Tyr Gln Ala His Trp
210     215     220
Leu Asn Leu Leu Ser Met Leu Gly Glu Gln Leu Thr Val Pro Glu Val
225     230     235     240
Lys Phe Val Thr His Thr Leu Ser Thr Pro Ala Ile Ser Val Asp Leu
245     250     255
Ile Leu Asp Val Gly Asn Thr His Thr Cys Gly Val Ile Ile Glu Asp
260     265     270
His Gly Asp Ala Asn Asp Gly Leu Arg Gln Thr Ala Glu Leu Gln Val
275     280     285
Arg Ser Leu Ser Glu Pro Gln Phe Leu Asn Glu Pro Leu Phe Thr Ser
290     295     300
Arg Leu Glu Phe Ser Glu Ala Arg Phe Gly Lys Gln His Phe Ser Val
305     310     315     320
Glu Ser Gly Arg Glu Asp Ala Phe Val Trp Pro Ser Ile Val Arg Val
325     330     335
Gly Asp Glu Ala Arg Lys Leu Ala Met Gln Arg Leu Gly Thr Glu Gly
340     345     350
Asn Ser Gly Ile Ser Ser Pro Arg Arg Tyr Leu Trp Asp Glu Thr Pro
355     360     365
Val Val Gln Asp Trp Arg Phe Ser Gln Met Asn Ser Lys Thr Gln Arg
370     375     380
Glu Pro Leu Ala Thr Ala Phe Pro Leu Met Asn Leu Met Asn Asp Asp
385     390     395     400
Gly Glu Pro Leu Phe Thr Leu Pro Gln Asp Glu Arg Leu Pro Val Phe
405     410     415
Ser Pro Gln Tyr Ser Arg Ser Thr Leu Met Thr His Met Leu Cys Glu
420     425     430
Leu Leu Ala Gln Ala Leu Gly Gln Ile Asn Ser Val Ala Thr Arg Leu

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435	440	445
Arg Leu Gly Phe Pro Ala Ser Pro Arg Gln Leu Arg Thr Leu Ile Leu		
450	455	460
Thr Leu Pro Ser Ala Met Pro Lys Gln Glu Arg Glu Ile Phe Arg Arg		
465	470	475
Arg Met Phe Glu Ala Ile Ala Ile Val Trp Lys Ala Met Gly Trp His		
	485	490
Pro Gln Asp Glu Asp Phe Ala Ser Arg Lys Gln Gln Glu Lys Ser Val		
	500	505
Val Pro Val Pro Glu Ile Gln Met Glu Trp Asp Glu Ala Ser Cys Gly		
	515	520
Gln Leu Val Trp Leu Tyr Asn Glu Ala Ile Ser His Phe Gly Gly Gln		
	530	535
Thr Glu Ala Phe Phe Ala Ser Leu Ala Arg Pro Asp Arg Ala Pro Glu		
	545	550
Pro Gly Val Leu Pro Gly Arg Ala Leu Arg Val Ala Ser Ile Asp Ile		
	565	570
Gly Gly Gly Thr Thr Asp Met Ala Ile Thr His Tyr Gln Leu Asp Asp		
	580	585
Gly Ser Gly Asn Asn Val Lys Ile Thr Pro Gln Leu Leu Phe Arg Glu		
	595	600
Gly Phe Lys Val Ala Gly Asp Thr Leu Leu Asp Val Ile Gln Arg		
	610	615
Tyr Val Leu Pro Ala Leu Gln Thr Gln Leu Gln Lys Ser Gly Ile Ala		
	625	630
Asp Ala Ser Gln Leu Met Ala Ser Leu Phe Gly Asp Ser Gly Arg Ile		
	645	650
Asp Thr Gln Ala Val Leu Arg Gln Gln Thr Ala Leu Gln Leu Phe Met		
	660	665
Pro Ile Gly His Ala Ile Leu Ala Trp Glu Ser Ser Asp Val Asp		
	675	680
Asp Pro Leu Ala Gly Leu His Ala Thr Phe Gly Asp Leu Leu Thr Gln		
	690	695
Lys Pro Thr Arg Asn Val Met Asn Tyr Leu Gln Gln Ala Ile Asp His		
	705	710
Ala Leu Pro Ala Gly Ser Glu His Phe Asp Leu Phe Ser Val Pro Leu		
	725	730
His Val Ser Phe Arg Glu Met Arg Asp Ala Met Leu Ala Gly Gln Phe		
	740	745
Thr Leu Ala Ala Pro Leu His Ala Val Cys Glu Ala Ile Ser His Tyr		
	755	760
Ser Cys Asp Ile Leu Leu Ile Thr Gly Arg Pro Gly Cys Leu Pro Gly		
	770	775
Val Gln Ala Leu Ile Arg His Leu Gln Pro Val Pro Val Asn Arg Ile		
	785	790
Val Trp Leu Asp Lys Tyr Gln Val His Glu Trp Tyr Pro Phe Ser Gln		
	805	810
Gln Gly Arg Ile Gly Asn Pro Lys Ser Thr Ala Ala Val Gly Ala Met		
	820	825
Leu Cys Ser Leu Ala Leu Asp Leu Arg Leu Pro Arg Phe Asn Phe Lys		
	835	840
Ala Ala Asp Ile Gly Ala Tyr Ser Thr Val Arg Tyr Leu Gly Val Leu		
	850	855
Asp Asn Thr Ile Asn Thr Leu Arg Asp Glu Asn Val Trp Tyr His Asp		
	865	870
Ile Asp Leu Asp Lys Pro Gly Ala Lys Leu Asp Ala Arg Leu His Phe		
	885	890
Pro Leu Arg Gly Asn Val Thr Leu Gly Phe Arg Gln Leu Ala Asn Ala		
	900	905
Arg Trp Pro Ala Thr Pro Leu Tyr Thr Leu Ser Ile Asn Ser Ala Glu		
	915	920
		925

Leu Ala Lys Ala Ile Ala Gly Asp Gly Val Leu Asn Val Arg Leu Lys
 930 935 940
 Leu Arg Gly Gly Thr Lys Gln Glu Gly Pro Glu Ser Phe Glu Leu Ser
 945 950 955 960
 Asp Ala Trp Leu Gln Asp Gly Thr Pro Val Pro Pro Asp Ala Leu Thr
 965 970 975
 Phe Lys Leu Asn Thr Leu Ala Asp Arg Arg His Ser Gly Ser His Tyr
 980 985 990
 Trp Ile Asp Ser Gly Ser Val Tyr Leu Lys
 995 1000

<210> 11058

<211> 657

<212> PRT

<213> Enterobacter cloacae

<400> 11058

Asn Ser Thr Phe Ser Cys Leu Ile Val Phe Ile Asn His Leu Phe Lys
 1 5 10 15
 Phe Ser Gln Leu Glu Val Tyr Ser Ser Phe Met Pro Val Thr Trp Leu
 20 25 30
 Thr Phe Leu His Leu Ala Asp Ser Leu Cys Phe Ala Ala Val Asp Tyr
 35 40 45
 Glu Gly Glu Pro Met Trp Ala Ala Asn Lys Glu Lys Ser Asn Pro Leu
 50 55 60
 Ser Ser Arg Gln Glu Val Val Ala Ser Leu Asn Ala Leu Leu Gln Ala
 65 70 75 80
 Leu Asp Thr Gln Phe Pro Ala Asn Arg Ser Arg Phe Pro Leu Gly Asp
 85 90 95
 Thr Cys Ala His Tyr Thr Ala Asp Ile Ala Gln Met Glu Gly Leu Ser
 100 105 110
 Arg Ala Leu Trp Gly Leu Phe Pro Leu Met Ala Ser Gly Glu Ser Thr
 115 120 125
 Pro Phe Ser Glu Lys Tyr Leu Thr Ala Ile Lys Leu Gly Thr Asp Pro
 130 135 140
 Gln Ser Ser Gly Tyr Trp Gly Glu Thr Gly Pro Tyr Asp Gln Arg Leu
 145 150 155 160
 Val Glu Met Ala Ala Tyr Gly Leu Gly Leu Ala Leu Met Gly Glu Thr
 165 170 175
 Leu Thr Ala Arg Phe Thr Gly Arg Glu Val Met Asn Leu His Ala Trp
 180 185 190
 Leu Asn Gln Ile Thr Glu Ala Gln Met Pro Asp Ser Asn Trp Asn Tyr
 195 200 205
 Phe Ala Ile Met Val Gln Leu Gly Phe Lys Arg Ala Gly Leu Pro Tyr
 210 215 220
 Asp Gln Asp Ala Ile Asp His Arg Phe Ala Leu Met Asp Ala Tyr Tyr
 225 230 235 240
 Leu Gly Asp Gly Trp Tyr Ser Asp Gly Pro Gly Arg Pro Lys Asp Tyr
 245 250 255
 Tyr Ile Ser Met Ala Phe His Phe Tyr Gly Leu Ile Tyr Ala Thr Leu
 260 265 270
 Ser Asn Asp Glu Ala Arg Ala Asn Val Leu Arg Glu Arg Ser Arg Leu
 275 280 285
 Phe Ala Glu Asp Phe Ile Tyr Trp Ser Ala Ala Asp Gly Ala Ser Val
 290 295 300
 Pro Phe Gly Arg Ser Leu Thr Tyr Arg Phe Ala Met Val Ala Phe Trp
 305 310 315 320
 Ser Ala Val Ala Phe Ser Gln Leu Asp Val Phe Thr Pro Gly Ile Val
 325 330 335
 Lys Gly Ile Val Leu Arg His Leu Arg Trp Trp Gln Gln Gln Ser Ile
 340 345 350

Val Asp Arg Asp Gly Ile Leu Thr Leu Gly Phe Ala Tyr Pro Asn Leu
 355 360 365
 Ala Met Cys Glu Asp Tyr Asn Ser Pro Gly Ser Pro Tyr Trp Ala Leu
 370 375 380
 Lys Thr Tyr Leu Ile Leu Ala Leu Pro Glu Ala His Pro Phe Trp Gln
 385 390 395 400
 Ala Glu Glu Gln Pro Leu Pro Ala Leu Asp Glu Lys His Val Ile Pro
 405 410 415
 His Ala Gln Gln Ile Leu Met His Ser Lys Asp Ser Gln His Val Val
 420 425 430
 Met Leu Thr Ala Gly Gln Leu Glu Leu Asn Asn Tyr Val Asn Thr Glu
 435 440 445
 Ala Lys Tyr Thr Lys Phe Ala Tyr Ser Ser Arg Phe Gly Phe Thr Leu
 450 455 460
 Glu Arg Gly Arg Phe Gly Leu Lys His Ala Ala Cys Asp Ser Met Leu
 465 470 475 480
 Leu Leu Ala Asp Gly Asp Asp Tyr Phe Arg Gly Arg Arg Glu Cys Glu
 485 490 495
 Glu Val Arg Val Asp Glu Asn Tyr Ile Phe Ser Arg Trp Ser Pro Trp
 500 505 510
 Arg Asp Val Gln Ile Ala Thr Trp Gln Ile Pro Phe Gly Glu Trp His
 515 520 525
 Leu Arg Leu His Arg Ile Asn Ser Thr Arg Thr Leu Gln Thr Val Glu
 530 535 540
 Gly Gly Phe Ala Val Met Lys Thr Ala His Gln Val Arg Glu Arg Gly
 545 550 555 560
 Cys Tyr Leu Leu Ala Glu Asn Gly Ser Ser Val Ile Val Asp Leu Ser
 565 570 575
 Pro Ile Ile Gln Arg Gln Pro Asp Ser Ile Val Thr Pro Pro Asn Ser
 580 585 590
 Ser Ile Met Phe Ala Glu Cys Ala Ser Ile Pro Leu Leu Lys Ala Asp
 595 600 605
 Leu Pro Gln Gly Glu Ser Trp Leu Cys Cys Ala Val Leu Ala Gly Gly
 610 615 620
 Arg Gln Leu Ala Ala Ala Thr Pro Gln Leu Asn Ile Thr His Ser Arg
 625 630 635 640
 Val Val Ile Ser Glu Pro Gly Ser Glu Arg Lys Leu Ser Phe Thr Leu
 645 650 655

<210> 11059

<211> 412

<212> PRT

<213> Enterobacter cloacae

<400> 11059

Gln Lys Arg Gln His Asp Lys Leu Arg Arg Gln Arg Arg Asn Arg Asn
 1 5 10 15
 Met Leu Ser Arg Ile Lys Glu Glu Arg Leu Pro Val Ile Ala Ala Pro
 20 25 30
 Val Asp Ser Arg Ala Phe Ser Asp Glu Leu Asn Ser Ala Arg Ser His
 35 40 45
 Val Leu Asp Leu Ile Ser Arg His Leu Thr Glu Phe Gly Asp Lys Phe
 50 55 60
 Pro Ala Glu Thr Cys Gln Asn Gly Phe Tyr Pro Leu Thr Asp Asn Val
 65 70 75 80
 Glu Trp Thr Thr Ser Phe Trp Thr Gly Gln Leu Trp Leu Ala Trp Glu
 85 90 95
 Met Ser Gly Glu Glu Lys Phe Arg Ala Met Ala Glu Lys His Val Arg
 100 105 110

Ser Phe Gly Leu Arg Ile Ala Gly Arg Asn Asp Thr Asn Thr His Asp
 115 120 125
 Leu Gly Phe Leu Tyr Thr Leu Ser Cys Val Ala Ala Trp Arg Leu Thr
 130 135 140
 Gly Asn Arg Glu Ala Arg Gly Phe Ser Leu Leu Ala Ala Glu Ala Leu
 145 150 155 160
 Leu Glu Arg Phe His Glu Lys Ala Lys Ile Ile Gln Ala Trp Gly Asp
 165 170 175
 Leu Ser Asp Pro Glu Gln Ala Gly Arg Met Ile Ile Asp Cys Asn Met
 180 185 190
 Asn Leu Pro Leu Leu Tyr Trp Ala Thr Glu Gln Thr Gly Asp Pro Arg
 195 200 205
 Phe Ala Asp Ala Ala Lys Ala His Val Met Gln Ala Ala Thr Tyr Leu
 210 215 220
 Ile Arg Asp Asp Ala Ser Thr Phe His Thr Tyr Tyr Met Asp Val Ala
 225 230 235 240
 Thr Gly Ala Pro Arg Tyr Gly Asn Thr Gln Gln Gly Tyr Ala Asp Asp
 245 250 255
 Ser Cys Trp Ser Arg Gly Gln Ala Trp Gly Ile Tyr Gly Phe Leu Leu
 260 265 270
 Ser Tyr Ile Tyr Thr Gly Asp Glu Thr Met Ile Ala Leu Ser Lys Arg
 275 280 285
 Leu Ala Asn Tyr Phe Leu Asn Arg Leu Pro Glu Asp Tyr Val Cys His
 290 295 300
 Trp Asp Leu Ala Leu Val Gly Thr Asp Ala Leu Arg Asp Ser Ser Ser
 305 310 315 320
 Ala Ala Ile Ala Val Cys Gly Leu Leu Glu Leu Val Lys His Leu Pro
 325 330 335
 Val Thr Asp Pro Asp Arg Glu Arg Tyr Leu Glu Trp Ala Lys Gly Ile
 340 345 350
 Met Ser Thr Leu Thr Lys His Tyr Leu Met Gly Lys Glu Glu Lys Gly
 355 360 365
 Asn Gly Leu Leu Lys His Ser Val Tyr His Leu Ala Ser Asn Lys Gly
 370 375 380
 Val Asp Glu Cys Ala Ser Trp Gly Asp Tyr Phe Tyr Val Glu Ala Leu
 385 390 395 400
 Val Arg Phe Thr Gln Ser Trp Lys Leu Tyr Trp
 405 410

<210> 11060

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 11060

Arg Leu Arg Leu Leu Val His Val Ala Gln Arg Asn Ser Met Lys Ile
 1 5 10 15
 Ala Cys Leu Gly Trp Gly Ser Leu Ile Trp Lys Ser Gly Ala Leu Pro
 20 25 30
 Val Ala Gly Glu Trp Gln Thr Asp Gly Pro Ser Leu Pro Val Glu Phe
 35 40 45
 Cys Arg Val Ser Asp Gly Gly Glu Leu Ala Thr Ala Ile Cys Met Asn
 50 55 60
 Ala Pro Ala Val Pro Val Leu Trp Ala Trp Leu Glu Ala Thr Thr Leu
 65 70 75 80
 Ser Val Ala Cys Arg Ala Leu Arg Glu Arg Glu Ala Ile Pro Glu Asp
 85 90 95
 Arg Cys Asp Gly Ile Gly Ser Leu Leu Ile Thr Gly Arg Asp Thr Gly
 100 105 110
 Ile Leu Thr Thr Trp Ala Arg Glu Lys Gly Ile Glu Ala Ile Ile Trp
 115 120 125

Thr Gly Leu Pro Pro Arg Ser Ala Ser Gln Glu Gly Arg Val Pro Ala
 130 135 140
 Val Asp Glu Ala Ile Ala Tyr Leu Asp Gly Leu Ser Gly Glu Thr Arg
 145 150 155 160
 Ser His Ala Arg Asp Tyr Ile Cys Arg Val Pro Ala Gln Leu Asp Thr
 165 170 175
 Pro Tyr Arg Arg Ala Ile Lys Glu Val Leu Gly Trp
 180 185

<210> 11061

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 11061

Gly Arg Leu Pro Trp Arg His His Arg Gln Leu Thr His Leu Ser Arg
 1 5 10 15
 Asp Ile Pro Leu Ala Ile Pro Gly Asp Leu Asn Lys Lys Leu Gly Lys
 20 25 30
 Tyr Ala Arg Phe Arg Leu Asp Gly Asn Ile Ser Ala Gln Ile Leu Asp
 35 40 45
 Leu Leu Thr Arg Lys Glu Gln Pro Asn Ala Ala Val Phe Thr Phe Cys
 50 55 60

65

<210> 11062

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 11062

Ser Cys Leu Ser Ser Ala Leu Ala Thr Val Ser Arg Trp Leu Arg Trp
 1 5 10 15
 Ala Gly Asp Ile Ser Ile Phe Gln Tyr His Asn Phe Ala Pro Gly Gln
 20 25 30
 Glu Ser Gly Lys Asn Gln Asp Asn Asp Lys Thr Glu Val Asn Asn Gln
 35 40 45
 Thr Gly Ile Ala Thr Leu Met Gln Pro Leu Gln Lys Arg Leu Phe Tyr
 50 55 60
 Asn Lys Gly Ile Val Leu His Thr His Ser Leu Ile Val Ala His His
 65 70 75 80
 Pro Ile

<210> 11063

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 11063

Ser Gly Glu Thr Arg Gly Arg Gln Ala Leu Arg His Gly Lys Arg Val
 1 5 10 15
 Ser Gly Gly Trp Ala Ser Pro Ser Glu Arg Arg Ser Ser Cys Lys Arg
 20 25 30
 Asp Gly Tyr Gln Ala Leu His Glu Ser Ser Gly Val Ala Pro Ala Gly
 35 40 45
 Thr Ala Pro Pro Gly Lys Gln Glu Pro Tyr Arg Val Phe Glu Arg Ile
 50 55 60
 Ala Ala
 65

<210> 11064
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 11064
 Arg Leu Pro Gly Leu His Ser Pro Gln Gln Tyr Leu Asn Val Ala Lys
 1 5 10 15
 Leu Phe Ile Leu Cys Thr Leu Val Arg Pro Ala Phe Ser Cys Leu Lys
 20 25 30
 Pro Ser Phe Ser Ser Arg Asn Leu Tyr Leu Pro Leu Thr Ile Glu Thr
 35 40 45
 Asn Pro Ile Asp Ser Lys Ser Trp His Ala Tyr Tyr
 50 55 60

<210> 11065
 <211> 72
 <212> PRT
 <213> Enterobacter cloacae

<400> 11065
 Lys Leu Cys Asp Gly Ile Lys Phe Gly Gly Glu Met Arg Ser Asp Ala
 1 5 10 15
 Leu Thr Pro Thr Leu Ser His Gly Glu Arg Glu Lys Gly Thr Asn Arg
 20 25 30
 Arg Pro Gly Lys Ala Lys Pro Pro Pro Gly Lys Gly Leu Glu Ala Arg
 35 40 45
 Ile Tyr Arg Arg Arg Gln His Leu Gln Gln Pro Phe Ala Val Phe Pro
 50 55 60
 Ala Gln Ala Arg Val Gly Asp
 65 70

<210> 11066
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 11066
 Thr Thr Ser Arg Ser Gly Trp Ala Lys Thr Thr Gly Tyr Lys Met Ala
 1 5 10 15
 Arg Val Lys Thr Ser Leu Lys Leu Phe Gly Gly Asp Thr Val Val Val
 20 25 30
 Arg Cys Ser Glu Arg Cys Arg Ile His Leu Ile Ser Ser Lys Gly Gln
 35 40 45
 Lys Gln Ser Gln Ala Asp Ile Leu Thr Val Gln Asp Asp Lys Ala Trp
 50 55 60
 Leu Thr Val Pro Tyr Thr Gly Thr Trp Asp Val Leu Ile Asp Ser His
 65 70 75 80
 Ser Gln Ser Leu Glu His Ser Val Ser Tyr Val Ala Ala
 85 90

<210> 11067
 <211> 128
 <212> PRT
 <213> Enterobacter cloacae

<400> 11067
 Ile Met Lys Leu Thr Asn Arg Leu Lys Lys Lys Leu Leu Val Leu Asp
 1 5 10 15
 Gly Ile Asp Asn Asp Phe Ile Glu Tyr Gly Lys Glu Ile Thr Cys Pro

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<210> 11068
<211> 61
<212> PRT
<213> Enterobacter cloacae
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<210> 11069
<211> 76
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 11070
<211> 62
<212> PRT
<213> Enterobacter cloacae
```

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<400> 11070
Lys Pro Thr His Gly Gly Tyr Arg Pro Cys Ala Ala Tyr Gly Glu Lys
1          5          10          15
Phe Val Glu Asp Thr Pro Trp Gly Val Val Ala Gln Ser Val Gly Asn
          20          25          30
Ser Cys Leu Ile Glu Val Arg Asn Thr Ala Leu Phe Leu Gln Lys Pro
          35          40          45
Arg Asn Ala Gly Asp Glu Lys Leu Ala Leu Pro Leu His
          50          55          60

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<210> 11071
 <211> 112
 <212> PRT
 <213> Enterobacter cloacae

<400> 11071
 Gly Leu Pro Met Ile Glu Asn Leu Ile Cys Ile Lys Glu Lys Asp Leu
 1 5 10 15
 Leu Gln Trp Ala Cys Gly Glu Ser Asn Ile Leu Val Ser Val Pro Phe
 20 25 30
 Leu Ser Tyr Ala Leu Val Asp Leu Thr Arg Gln Leu Val Phe Val Leu
 35 40 45
 Ser Glu Pro Lys Pro Leu Ser Thr Val Leu Thr Ile Phe Asn Val Gln
 50 55 60
 Gly Glu Lys Leu Phe Trp Ser Ala Pro Pro Glu Gly Ala Thr Phe Tyr
 65 70 75 80
 Tyr Leu Thr Phe Asn Leu Ser Lys Glu Val Ile Val Val Cys Ser Tyr
 85 90 95
 Pro Ala Lys Lys Met Ala Gly Met Ile Gly Phe Ile Pro Gly Ile
 100 105 110

<210> 11072
 <211> 143
 <212> PRT
 <213> Enterobacter cloacae

<400> 11072
 Leu Met Lys Pro Leu Tyr Phe Leu Leu Phe Ala Leu Ser Pro Leu Ala
 1 5 10 15
 Ala Ala Glu Asn Ile Tyr Ala Pro Gly Gln Ala Ala Leu Lys Phe Asn
 20 25 30
 Gln Trp Tyr Ile Ala Gln Leu Asp Gln Asn Lys Pro Pro Val Leu Asn
 35 40 45
 Pro Asp Ile Met Asn Glu Tyr Val Ala Ser Gly Thr Ile Ala Ala Ile
 50 55 60
 Lys Glu Met Tyr Ser Gly Asp Ser Asn Asp Lys Asp Met Pro Asp Ala
 65 70 75 80
 Asp Met Phe Ile Lys Ala Gln Asp Trp Asp Asp Trp Asn Gln Ile
 85 90 95
 Thr Val Leu His Ser Asp Phe Asp Ala Val Cys Thr Asn Val Tyr Val
 100 105 110
 Ala Phe Gly Lys Lys Gln Asp His Val Ile Ala Asp Cys Leu Val Glu
 115 120 125
 Glu Gln Gly Lys Trp Lys Val Arg Ser Ala Thr Leu Ile Lys
 130 135 140

<210> 11073
 <211> 115
 <212> PRT
 <213> Enterobacter cloacae

<400> 11073
 Val Gly Val Ile Thr Ala Lys Ser His Ala Gln Pro Ser Ser Thr Gly
 1 5 10 15
 Tyr Cys Ala Arg Tyr Val Thr Glu Ala Ile Arg Ala Gly Gly Arg Leu
 20 25 30
 Lys Ile Pro Asn Thr Arg Leu Ala Lys Asp Met Gly Arg Thr Leu Val
 35 40 45
 Asn Ala Gly Phe His Leu Val Tyr Asp Gln Pro His Ala Gly Asp Val
 50 55 60
 Ala Val Ile Gln Asn Ile Val Gly His Asp Ser Gly His Val Cys Ile

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<210> 11074
<211> 78
<212> PRT
<213> Enterobacter cloacae
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<210> 11075
<211> 225
<212> PRT
<213> Enterobacter cloacae
```

225

<210> 11076
 <211> 83
 <212> PRT
 <213> Enterobacter cloacae

<400> 11076
 Cys Glu Val Ile Met Ser Asp Val Val Leu Leu Val Pro Asn Asp Trp
 1 5 10 15
 Val Ser Glu Lys Val Leu Ile Ala Val Thr Gly Leu Lys Pro Gly Thr
 20 25 30
 Ile Leu Arg Ala Arg Lys Glu Cys Trp Met Val Gly Arg Glu Tyr Val
 35 40 45
 His Val Ser Pro Asp Gly Asn Pro Lys Pro Ser Ser Glu Cys Met Tyr
 50 55 60
 Asn Arg Lys Ala Val Asp Ala Trp Val Ala Ser Met Lys Asn Lys Gln
 65 70 75 80
 Pro Gly

<210> 11077
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 11077
 Ile Leu Ser Asn Arg Ala Gly Glu Cys Leu Ser Gly Ala Asn Ile Leu
 1 5 10 15
 Asn Ser Met Asn Lys Ile Trp Gln Ala Asp His Tyr Phe Phe Trp Arg
 20 25 30
 Val Val Asn Glu Lys Lys Thr Ser Phe Tyr Leu Arg Gly Tyr Ser Ala
 35 40 45
 Asp Gly Gly Asp Cys Arg Ser Gly Ala Gly Ser His Gln
 50 55 60

<210> 11078
 <211> 334
 <212> PRT
 <213> Enterobacter cloacae

<400> 11078
 Ala Ala Asn Leu Arg Ser Ala Asp Leu Ser Gly Gly Ala Val Arg Arg
 1 5 10 15
 Leu Leu Ile Ala Leu Leu Leu Leu Cys Ser Gly Gly Ser Trp Ala Ala
 20 25 30
 Cys Thr Val Ser Thr Val Asn Ala Ser Phe Gly Ser Val Thr Ser Phe
 35 40 45
 Ala Leu Ser Gly Thr Gly Glu Val Glu Thr Thr Gly Thr Leu Val Val
 50 55 60
 Thr Cys Asp Thr Val Leu Asn Leu Leu Thr Asn Asp Ser Val Thr Leu
 65 70 75 80
 Asn Tyr Thr Ser Ala Ser Val Phe Ala Asn Ser Arg Ala Thr Met Lys
 85 90 95
 Arg Thr Asp Asn Ala Ala Ile Thr Asp Val Ile Pro Thr Arg Leu Cys
 100 105 110
 Gly Ala Ser Gly Cys Gly Gly Asn Ser Glu Ile Gln Ile Ser Lys Ala
 115 120 125
 Tyr Thr Trp Ser Gly Asn Thr Leu Leu Gly Leu Leu Gly Ser Arg Arg
 130 135 140
 Tyr Asn Ile Pro Leu Tyr Phe Arg Thr Val Met Gly Gln Asn Val Thr
 145 150 155 160

Ala Gly Pro Tyr Gln Val Leu Leu Thr Phe Ser Ile Asn Tyr Asn Val
 165 170 175
 Cys Ala Val Gly Ala Val Gly Ala Cys Leu Thr Pro Gln Thr Gly Thr
 180 185 190
 Ala Thr Thr Ser Ile Leu Leu Asn Met Thr Val Thr Asn Asp Cys Ser
 195 200 205
 Thr Met Thr Thr Pro Asp Val Asn Phe Asn Ser Ala Pro Leu Val Gln
 210 215 220
 Asn Phe Pro Thr Val Ser Gln Ser Val Ala Val Thr Cys Thr Lys Gly
 225 230 235 240
 Ser Thr Tyr Thr Ile Gly Ile Asn Asn Gly Ala Asn Ala Leu Asn Asn
 245 250 255
 Val Arg Arg Met Val Ser Gly Ser Asn Phe Met Ser Tyr Asp Ile Tyr
 260 265 270
 Lys Glu Ala Thr Ser Asn Arg Trp Gly Ser Ser Gly Ser Glu Arg Trp
 275 280 285
 Ala Ser Ala Ser Ser Ser Gln Val Ser Thr Asp Gly Leu Leu Arg Thr
 290 295 300
 Tyr Asn Tyr Thr Ala Lys Val Leu Thr Ser Gln Ala Thr Pro Pro Ala
 305 310 315 320
 Gly Thr Tyr Thr Asp Thr Leu Ile Val Asp Val Ala Phe
 325 330

<210> 11079

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 11079

Lys Phe Ser Ala Thr Arg Cys Ser Ser Thr Thr Ala Asn Cys Leu Pro
 1 5 10 15
 Phe His Gln Ser Ser Gly Ile Ser Glu Gly Trp Leu Ala Lys Leu Thr
 20 25 30
 Phe Pro Phe Asp Thr Lys Glu Thr Leu Phe Tyr Lys Ser Val Thr Arg
 35 40 45
 Val Leu Thr Leu Phe Ala Phe Leu Pro Phe Thr Pro Leu
 50 55 60

<210> 11080

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 11080

Ile Thr Tyr Arg Val Asp Phe Val Asp Asp Pro His Leu Leu Thr Ser
 1 5 10 15
 Ser Asp Gln Leu Arg Val Glu Asn Lys Cys Thr Leu Val Ala Leu Ser
 20 25 30
 Ser Ala Val Phe Ala Gln Leu Asn Ile Asp Leu Met Leu Phe Ser Lys
 35 40 45
 Pro Gly His Phe Arg Leu Ile Pro Gln Asp Ala Asp Arg Arg Leu Asn
 50 55 60
 Glu Val Tyr His Ser Val Gly Thr Gly Leu Ser Phe Arg
 65 70 75

<210> 11081

<211> 465

<212> PRT

<213> Enterobacter cloacae

<400> 11081

Ser	Arg	Arg	Arg	Lys	Met	Lys	Trp	Met	Asn	Ala	Val	Val	Tyr	Ala	Ala
1				5					10					15	
Leu	Leu	Ala	Met	Ala	Gly	Pro	Ala	Phe	Ser	Glu	Gly	Ala	Pro	Ala	Glu
			20					25					30		
Ser	Pro	Arg	Asp	Tyr	Ala	Tyr	Gly	Leu	Ser	Leu	Asp	Thr	Ser	Ala	Ser
		35					40				45				
Ser	Pro	Trp	Tyr	Arg	Val	Met	Leu	Pro	Leu	Ala	Ile	Tyr	Gln	Gln	Ser
		50				55					60				
Thr	Ser	Pro	Asp	Leu	Arg	Asp	Val	Arg	Val	Phe	Asn	Gln	Ser	Gly	Glu
65					70					75					80
Pro	Val	Pro	Phe	Ser	Leu	Val	Thr	Thr	Thr	Arg	Pro	Gln	Pro	Ala	Pro
				85					90					95	
Thr	Thr	Thr	Ala	Leu	Arg	Leu	Phe	Ala	Leu	Asn	Ala	Ser	Pro	Gly	Gly
			100					105					110		
Glu	Glu	Asp	Ser	Gly	Asp	Lys	Ile	Met	Leu	Arg	Ala	Arg	Asn	Gly	Val
		115					120					125			
Glu	Ile	Val	Leu	Glu	Gly	Gln	His	Ala	Ala	Ala	Ala	Gly	Gln	His	Tyr
	130					135					140				
Leu	Leu	Thr	Leu	Pro	Glu	Asn	Ala	Thr	Glu	Val	Pro	Leu	Ser	Gln	Leu
145					150					155					160
Gln	Leu	Phe	Trp	Asp	Thr	Pro	Gln	Gly	Ser	Trp	Gln	Gly	Thr	Ala	Ser
			165					170						175	
Val	Tyr	Tyr	Ser	Glu	Asp	Leu	Lys	Asn	Trp	Tyr	Thr	Leu	Arg	Glu	Glu
			180					185					190		
Met	Pro	Leu	Leu	Asp	Val	Met	Ser	Gly	Arg	Glu	Arg	Leu	Lys	Leu	Asp
		195				200						205			
Arg	Ile	Asp	Thr	Asp	Leu	Val	Leu	Ser	Pro	Glu	Ala	Asn	Arg	Tyr	Leu
	210					215					220				
Leu	Leu	Val	Leu	Asn	Thr	Gly	Arg	Ser	Ala	Leu	Thr	Leu	Thr	Gly	Val
225					230					235					240
Asn	Ala	Ile	Asn	Ala	Pro	Ala	Pro	Pro	Glu	Ser	Glu	His	Ile	Ser	Leu
			245						250					255	
Ala	Gly	Glu	Gly	Glu	Arg	Leu	Ser	Glu	Ser	Glu	Ala	Val	Trp	Arg	Trp
		260						265					270		
Lys	His	Pro	Gln	Pro	Leu	Ser	Ala	Ile	Ala	Phe	Met	Leu	Asn	Gly	Asp
		275					280					285			
Gly	Val	Leu	Pro	Ala	Glu	Ile	Ala	Trp	Arg	Gly	Ala	Asp	Lys	Asp	Arg
	290					295					300				
Trp	His	Thr	Leu	Lys	Lys	Glu	Val	Ile	Tyr	Gln	Leu	Gly	Gly	Lys	Thr
305				310						315					320
Ala	Glu	Pro	Val	Pro	Leu	Pro	Gly	Gly	Leu	Val	Glu	Ala	Val	Lys	Ile
			325						330					335	
Lys	Thr	Leu	Asn	Ala	Arg	Leu	Pro	Glu	Asn	Leu	Pro	Gly	Val	Ile	Gly
		340						345					350		
Gln	Arg	Val	Arg	Tyr	Asp	Leu	Val	Phe	Asn	Ala	Gln	Gly	Lys	Gly	Pro
		355					360					365			
Tyr	Leu	Leu	Ala	Trp	Gly	Asn	Gly	Ala	Ala	Lys	Pro	Ala	Ser	Val	Glu
	370					375					380				
Thr	Asp	Met	Leu	Ile	Pro	Thr	Glu	Leu	Arg	Lys	Thr	Tyr	Asp	Leu	Ala
385					390					395					400
Ala	Leu	Pro	Met	Ala	Asp	Thr	Leu	Glu	Pro	Val	Pro	Leu	Gly	Gly	Glu
			405						410					415	
Ala	Arg	Leu	Thr	Ala	Thr	Ser	Ala	Ala	Glu	Gln	Glu	Ser	Arg	Met	Lys
		420						425					430		
Thr	Leu	Met	Val	Trp	Gly	Val	Leu	Ile	Ala	Gly	Val	Met	Val	Leu	Ala
	435						440					445			
Gly	Met	Ala	Trp	Arg	Ile	Trp	Arg	Glu	Val	Lys	Lys	Asp	Gly	Ala	Ala
	450					455					460				

<210> 11082

<211> 879

<212> PRT

<213> *Enterobacter cloacae*

<400> 11082

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Arg Ile Val Tyr Gly Glu Gly Gly Asn Met Asp Glu Leu Tyr Ile Leu
1      5      10      15
Gly Cys Leu Phe Leu Val Phe Ala Leu Val Val Ala Pro Val Leu Ala
20      25      30
Val Ile Gly Phe Asn Arg Ser Thr Ala Ala Arg Gln Glu Ile Ala Arg
35      40      45
Leu Arg Gln Arg Ile Glu Ala Leu Glu Gln Arg Ser Val Ala Glu Lys
50      55      60
Ala Pro Glu Gln Val Gln Thr Ala Ala Pro Val Lys Thr Pro Ala Pro
65      70      75      80
Val Ser Glu Ala Ala Asn Ala Pro Val Asp Pro Trp Arg Pro Glu Pro
85      90      95
Pro Val Thr Glu Ala Glu Pro Val Pro Val Pro Ala Ala Lys Arg Pro
100     105     110
Ser Ala Phe Gly Gly Ile Leu Ser Ser Leu Thr Arg Trp Phe Met Gln
115     120     125
Gly Asn Pro Leu Ala Lys Leu Gly Ile Val Leu Leu Phe Leu Gly Leu
130     135     140
Ser Phe Leu Leu Arg Tyr Thr Val Glu His Ser Leu Phe Pro Leu Glu
145     150     155     160
Leu Arg Leu Ala Ala Thr Ala Leu Phe Ala Met Val Leu Leu Ala Val
165     170     175
Gly Trp Arg Leu Arg His Arg Gln Arg Ile Tyr Ala Leu Ile Leu Gln
180     185     190
Gly Gly Ala Thr Gly Val Leu Tyr Leu Thr Val Phe Gly Ala Phe Arg
195     200     205
Leu Trp Gln Met Leu Pro Met Thr Leu Ala Phe Val Leu Leu Val Val
210     215     220
Ile Cys Ala Ala Ser Val Gly Leu Ala Val Leu Gln Lys Ala Leu Ser
225     230     235     240
Leu Ala Met Leu Ala Ser Leu Gly Gly Tyr Leu Ala Pro Leu Leu Leu
245     250     255
Ser Thr Gly Gly Gly Ser Phe Val Ala Leu Phe Ser Phe Tyr Leu Leu
260     265     270
Leu Ser Ile Gly Ile Leu Val Ile Ser Ile Trp Gln His Trp Arg Glu
275     280     285
Leu Asn Leu Leu Gly Leu Leu Phe Thr Phe Gly Val Gly Gly Val Trp
290     295     300
Gly Leu Ser Asp Tyr Gln Pro Glu Asp Tyr Val Ile Cys Gln Leu Phe
305     310     315     320
Leu Ile Ala Asn Thr Leu Ile Phe Gly Val Phe Ser Val Ala Leu Ser
325     330     335
Leu Arg Ala Gln Glu Lys Gly Lys Gln Ile Ile Asp Gly Val Leu Leu
340     345     350
Phe Ala Pro Pro Leu Ile Gly Phe Gly Met Gln Tyr Gly Met Thr Ser
355     360     365
His Trp Thr Tyr Gly Pro Ala Leu Ser Ala Leu Gly Tyr Gly Ala Phe
370     375     380
Tyr Leu Ser Leu Ala Phe Leu Ala Leu Arg Arg Tyr Pro Ser Ile Gly
385     390     395     400
Arg Pro Leu Val Met Ala Ala Leu Ala Ile Gly Gly Gly Phe Ala Thr
405     410     415
Leu Ala Ile Pro Leu Ala Leu Ser Ala Arg Trp Thr Ala Met Ala Trp
420     425     430
Ala Leu Glu Gly Leu Gly Ile Leu Trp Leu Gly Val Gln Gln Gln Gln

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<210> 11083
<211> 73
<212> PRT
<213> Enterobacter cloacae
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<400> 11083

Thr Asp Leu Met Leu Tyr Ser Gly Pro His Ser Gly Gly Tyr Leu Trp
 1 5 10 15
 Leu Ser Ala Val Val Phe Thr Gly Gly Arg Asp Gly Ile Ala Arg Leu
 20 25 30
 Ala Phe Leu Glu Phe Thr Ala Ser Phe Leu Val Ala Val Gly Arg Gln
 35 40 45
 Lys Tyr Asp Thr Ser Ala Gly Lys Arg Glu Leu Gly Thr Ala Ser Leu
 50 55 60
 Arg Pro Ala Pro Asp Ala Asp Ala
 65 70

<210> 11084

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 11084

Cys Asn Leu Arg Arg Ile Glu Leu His Leu Cys Ile Leu Ile Gln Arg
 1 5 10 15
 Asp Lys Met Cys Gly Gly Cys Leu Arg Leu Ser Val Leu Ser Ile Val
 20 25 30
 Glu Gly Gln Lys Val Glu Ser Pro Gly Lys Phe Ser Phe Thr Arg Gly
 35 40 45
 Tyr Ser Leu Asn Ser Asn Lys Leu Arg Val Ala Ser Tyr Ser Phe Phe
 50 55 60
 Asp Lys Glu
 65

<210> 11085

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 11085

Ser Ile Lys Arg Thr Ser Ala Arg Ile Arg Gly Gly Arg Leu Asn Asp
 1 5 10 15
 Pro Phe Pro Ser Pro Ala Gly Arg Gly Asn Cys Phe Lys Gly Val Thr
 20 25 30
 Met Lys Arg Ser Asp Ile Asn Glu Ile Leu Gly His Thr Arg Gln Phe
 35 40 45
 Phe Ser Met His Asp Val His Leu Pro Pro Phe Ala Ser Phe Pro Pro
 50 55 60
 Thr Lys Trp Gln Gln Leu Asp Gln Ala Ala Trp Gln Glu Val Phe Asp
 65 70 75 80
 Leu Arg Leu Gly Trp Asp Val Thr Ala Phe Gly Gly Asn Asn Phe Ala
 85 90 95
 Ala Gln Gly Leu Thr Leu Phe Thr Leu Arg Asn Gly Ser Pro Asn Gly
 100 105 110
 Val Pro Tyr Glu Lys Cys Tyr Ala Glu Lys Ile Leu His Val Arg Asp
 115 120 125
 Gly Gln Val Thr Pro Met His Phe His Trp Arg Lys Arg Glu Asp Ile
 130 135 140
 Ile Asn Arg Gly Gly Gly Asn Leu Ile Ile Glu Leu Trp Asn Ala Gly
 145 150 155 160
 Ala His Glu Glu Thr Glu Asn Thr Asp Val Thr Val Thr Val Asp Gly
 165 170 175
 Cys Arg Gln Thr His Ala Pro Gly Ser Gln Leu Arg Leu Thr Pro Gly
 180 185 190
 Glu Ser Ile Cys Leu Thr Pro Gly Leu Tyr His Ser Phe Trp Gly Glu
 195 200 205

Arg Gly Phe Gly Asp Val Leu Val Gly Glu Val Ser Ser Val Asn Asp
 210 215 220
 Asp Glu His Asp Asn His Phe Leu Gln Pro Ile Asp Arg Tyr Asn Thr
 225 230 235 240
 Ile Glu Glu Asp Glu Pro Ala Val Leu Val Leu Cys Asn Glu Tyr Asn
 245 250 255
 Leu Phe Arg Ile
 260

<210> 11086

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 11086

Gly Gln Phe Thr Cys Glu Ser Gly Leu Met Lys Arg Tyr Ser Thr Ala
 1 5 10 15
 Leu Leu Leu Gly Leu Leu Thr Leu Thr Ser Gln Leu Ala His Ala Asp
 20 25 30
 Val Ile Asp Asp Ala Ile Gly Asn Ile Gln Gln Ala Ile Asn Asp Ala
 35 40 45
 Tyr Asn Pro Ser Ser Ser Arg Asn Asp Asp Asp Asp Arg Tyr Asp
 50 55 60
 Arg Ser Arg Gln Ile Asp Ser Arg Gln Tyr Asp Asp Arg Arg Arg Gln
 65 70 75 80
 Leu Glu Asp Arg Arg Arg Arg Leu Asp Glu Arg Gln Arg Gln Leu Asp
 85 90 95
 Asp Asp Arg Arg Arg Leu Glu Glu Asp Glu Arg Arg Leu Glu Asp Asp
 100 105 110
 Tyr Asp Arg Gly
 115

<210> 11087

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 11087

Lys Ser Leu Pro Thr Ser Met Thr Leu Lys Val Glu Ser Ile Ala Ile
 1 5 10 15
 Phe Cys Lys Lys Cys Trp Thr Ser Ala Asn Glu Asn Asp Tyr Tyr Cys
 20 25 30
 Ser Ala Phe Arg Lys Thr Ser Tyr Gly Asn Leu Lys Ala Arg His Cys
 35 40 45
 Ser His Cys Phe Gln Tyr Tyr Phe Ser Gln Leu Leu Ala Gly Phe Phe
 50 55 60
 Phe Val Met Val Arg Leu Ser Asn Leu Arg Lys Arg Thr Glu Pro
 65 70 75 80

<210> 11088

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 11088

Leu Asp Ala Val Asp Ala Gln Pro Val Val Ala His Ile Asn His Gly
 1 5 10 15
 Ala Asn Gln Arg Ala Gly His Ala Ala Val Met Pro Leu Cys Ala Asn
 20 25 30
 Ala Tyr Thr Glu Ile Gly Asn Val Ala Ala Ala Trp Ser Leu Gly Asp
 35 40 45

Ile Asn Gly Glu Val Ala Tyr His Asp Ile Ile Asn Ala Gly Asn Gln
 50 55 60
 Leu Phe Asn Ala Arg Leu Phe Ala
 65 70

<210> 11089
 <211> 79
 <212> PRT
 <213> Enterobacter cloacae

<400> 11089
 Arg His Arg Gln Ala Leu Cys Pro Ala Gln Arg Arg Val Cys Gly Cys
 1 5 10 15
 Val Leu Tyr Gly Ala Asn Glu Val Val Cys Cys Arg Val Ala Ala Ser
 20 25 30
 Pro Tyr Pro Ala Tyr Val Arg Val Val Val Gly Pro Val Ser Ala Ala
 35 40 45
 Pro Pro Gly Asn Lys Ile Asn Thr Pro Pro Leu Asn His Pro Pro Asn
 50 55 60
 Ala Gly Pro Thr Arg Gln Thr Ala Arg His Pro Val Arg Pro
 65 70 75

<210> 11090
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 11090
 Gly Cys Arg Gln Gln Arg Arg Gln Glu Asn Lys Gly Gly Gln Phe His
 1 5 10 15
 Glu Ser Gly Leu Arg Gln Thr Glu Ser Pro Asp Ser Val Pro Val Val
 20 25 30
 Ala Gln Lys Ser Arg Ile Lys Phe Tyr Ile Arg Asn Tyr Lys Leu Ile
 35 40 45
 Arg Trp Asp Asp Leu Leu Met Ser Arg Phe Glu Ser Val Ile Tyr Asp
 50 55 60

65

<210> 11091
 <211> 95
 <212> PRT
 <213> Enterobacter cloacae

<400> 11091
 Leu Asn Arg Pro Pro Gly Met Ser Thr Val Lys Met Glu Asn Val Ile
 1 5 10 15
 Arg Lys Asn Lys Arg Ala Pro Phe Pro Val Pro Trp Gly Gln Cys Leu
 20 25 30
 Asn Leu Gln Ser Ser His Leu Ser Pro Gly Lys Asn Pro Asp Ala Val
 35 40 45
 Phe Thr Glu Cys Met Arg Leu Thr Gly Gln Leu Val Cys Asn Asn Phe
 50 55 60
 Leu Pro Gly Leu Leu Arg Val Asn Pro Val Ile Val Tyr Leu Thr Ala
 65 70 75 80
 Pro Trp Pro Ala Gly His Leu Cys Ile Lys Ala Trp Gln Gln
 85 90 95

<210> 11092
 <211> 127
 <212> PRT

<213> Enterobacter cloacae

<400> 11092

Glu	Asn	Ser	Thr	Leu	Asn	Arg	Gly	Lys	Met	Lys	Met	Met	Asn	Thr	Val
1				5					10					15	
Leu	Lys	Ala	Thr	Leu	Ile	Thr	Ala	Leu	Ile	Ser	Gly	Pro	Val	Leu	Ala
			20					25					30		
Val	Asp	Gly	Thr	Gly	Lys	Val	Gln	Leu	Ser	Asp	Leu	His	Phe	Ala	Ser
		35					40					45			
Ala	Ala	Asn	Gly	Leu	Gln	Gln	Ile	Glu	Gly	Thr	Gly	Thr	Asn	Val	Ser
		50				55					60				
Gly	Gly	Pro	Val	Lys	Thr	Val	Ile	Val	Lys	Phe	Asn	Leu	Leu	Gln	Asn
65					70					75					80
Gly	Ala	Val	Ile	Gly	Asn	Thr	Ala	Ala	Met	Ala	Glu	Asn	Leu	Glu	Pro
				85					90					95	
Gly	Gln	Gln	Trp	Lys	Leu	Gln	Ala	Pro	Tyr	Asp	Ser	Ile	Thr	Asn	Lys
			100					105					110		
Pro	Asp	Ser	Phe	Lys	Val	Thr	Glu	Leu	Thr	Val	Phe	Asn	Asn		
		115						120					125		

<210> 11093

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 11093

Arg	Glu	Ala	Leu	Asp	Met	Ser	Asp	Gly	Lys	Thr	Lys	Gly	Gly	Thr	Thr
1			5						10					15	
Ala	Ser	Arg	Ala	Gly	Ala	Leu	Gln	Ser	Ser	Val	Asn	Ile	Leu	Leu	His
			20					25					30		
Thr	His	Tyr	Ala	Ile	Arg	Leu	Trp	Glu	Gly	Arg	Lys	Arg	Asp	Ala	Pro
		35				40					45				
Asp	Glu	Thr	Gly	Val	Lys	Lys	Lys	Arg	Pro	Glu	Ile	Ile	Ser	Met	Pro
	50					55					60				
Gln	Ala	Ile	Ala	Arg	Ala	Gly	Asn	Ala	Ser	Arg	Asp	Ser	Ala	Ala	Asp
65				70						75					80
Asn	Pro	Tyr	Ala	Asp	Met	Ala	Leu	Val	Arg	Leu	Glu	Glu	Ala	Leu	Gln
			85					90						95	
Arg	Ala	Thr	Leu	Lys	Ile	Asn	Glu	Asn	Val	Ser	Ser	Leu	Asp	Ala	Ile
			100					105					110		
Leu	Ser	Ala	Val	Pro	Lys	Gly	Val	Thr	Leu	Ser	Glu	Val	Glu	Ser	Ala
		115					120					125			
Asp	Pro	Leu	Asn	Val	Ser	Val	Phe	Ser	Arg	Ser	Pro	Leu	Gly	Tyr	Arg
	130					135					140				
Cys	Val	Trp	Leu	Leu	Val	Gly	Tyr	Asp	Gln	Leu	Ala	Met	Lys	Ala	Phe
145				150						155					160
Gln	Ala	Phe	His	Tyr	Gly	Leu	Ile	Ser	Arg	Ser	Gln	Arg	Asp	Ala	Ile
			165						170					175	
Leu	Asp	Asn	Gly	Gly	His	Ala	Val	Arg	Gln	Val	Tyr	Gly	Val	Ile	Gln
			180					185					190		
Pro	Tyr	Arg	Thr	Leu	Ala	Val	Thr	Arg	Arg	Asp	Ile	Ala	Glu	Lys	Thr
		195					200					205			
Thr	Gln	Gly	Leu	Val	Ala	Ile	Glu	Arg	Asn	Gly	Glu	Pro	Asp	Pro	Asp
	210					215					220				
Val	Leu	Ser	Gly	Lys	Lys	Arg	Ser	Ser	Phe	Ser	Pro	Pro	Leu	Lys	Asn
225					230					235					240
Thr	Ile	Ala	Glu	Glu	Glu										
				245											

<210> 11094

<211> 183

<212> PRT

<213> Enterobacter cloacae

<400> 11094

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Pro Pro Thr Gly Asn His Ser Arg Gln Gly Arg Trp Phe Leu Arg Arg
1          5          10          15
Thr Tyr Phe Tyr Leu His Gly Glu Asn Ile Met Ser Ala Asn Asn Thr
          20          25          30
Ser Ala Ser Ala Lys Ser Glu Tyr Phe Asn Leu Thr Ile Lys Gly Ile
          35          40          45
Gly Tyr Leu Ser Asn Ile Arg Gln Val Asn His Gln Asn Gly Ser Phe
          50          55          60
Leu Ser Cys Val Ile Asn Ala Leu Ser Gly Pro Thr Asp Asn Pro Ala
65          70          75          80
Tyr Val Arg Phe Asp Ile Ser Val Ala Gly Lys Glu Ala Thr Ser Leu
          85          90          95
Ile Ala Arg Cys Gln Lys Ala Val Asp Glu Asp Lys Lys Val Leu Leu
          100          105          110
Gly Phe Asn Leu Ser Asn Pro Ser Thr Asp Ile Phe Thr Leu Asn Lys
          115          120          125
Gly Asp His Ala Gly Glu Gln Arg Val Ser Leu Lys Ala Arg Leu Ile
          130          135          140
Lys Val Asp Trp Ile Lys Ile Gly Gln Glu Met Val Tyr Lys Thr Glu
145          150          155          160
Lys Ser Asp Ser Val Pro Pro Gln Asn Gly Ser Val Ala Gln Gln Asn
          165          170          175
Tyr Ala Glu Asn Ser Phe
          180

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<210> 11095

<211> 233

<212> PRT

<213> Enterobacter cloacae

<400> 11095

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Gly Leu Phe Tyr His Cys Thr Gly Lys Ile Arg Met Lys Arg Asn Thr
1          5          10          15
Ser His Asn Val Phe Ser Pro Gly Arg Leu Ala Thr Val Leu Pro Leu
          20          25          30
Leu Leu Leu Ala Gly Cys Val Ser Gln Pro Gln Lys Leu Gln Gln Arg
          35          40          45
Ala Pro Ala Asp Pro Thr Pro Gly Thr Thr Val Thr Arg Asn Val Gln
          50          55          60
Pro Val Ser Pro Asp Glu Tyr Ala Arg Thr Pro Glu Val Val Arg Tyr
65          70          75          80
Asp Arg Tyr Leu Leu Val Ser Thr Asp Pro Gln Ala Ala Gln Arg Asp
          85          90          95
Pro Leu Ser Gln Ile Ile Asp Ile Arg Ile Pro Ser Ser Leu His Pro
          100          105          110
Thr Val Val Asp Ala Leu Arg Tyr Ala Leu Arg Gln Ser Gly Tyr Ser
          115          120          125
Leu Cys Ala Thr Gly Ser Ala Asn Gly Val Leu Tyr Arg Gln Ala Leu
          130          135          140
Pro Ala Val Gln Tyr Gln Leu Gly Pro Met Arg Leu Arg Thr Ala Leu
145          150          155          160
Gln Val Leu Ala Gly Pro Ala Trp Gln Leu Glu Val Asp Asp Val Gln
          165          170          175
Arg Val Val Cys His Ser Leu Arg Asp Gly Tyr Gln Leu Pro Val Ser
          180          185          190
Gln Leu Pro Pro Pro Val Ser Thr Trp Ser Ala Pro Ala Pro Ser Ala
          195          200          205

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Val Ser Gln Pro Ala Ile Ser Ala Pro Gln Ser Val Pro Val Lys Pro
 210 215 220
 Val Ser Gly Gly Phe Leu Arg Lys
 225 230

<210> 11096
 <211> 212
 <212> PRT
 <213> Enterobacter cloacae

<400> 11096
 Met Gly Asn Arg Ser Val Leu Thr Gly Ala Leu Ala Leu Gly Leu Leu
 1 5 10 15
 Met Ala Ala Val Pro Asp Gly His Ala Asp Gln Thr Val Pro Glu Gly
 20 25 30
 Tyr Val Arg Val Ala Met Ala His Gly Val Pro Pro Glu Ala Leu Tyr
 35 40 45
 Ser Val Ser Leu Ser Glu Ser Ser Arg Lys Leu Pro Arg Gly Val Arg
 50 55 60
 Pro Trp Pro Trp Thr Ile Asn Val Ala Gly Lys Gly Tyr Arg Tyr Glu
 65 70 75 80
 Thr Arg Leu Gln Ala Trp Gln Ala Leu Gln Val Phe Met Lys Arg His
 85 90 95
 Ala Leu Lys Arg Ile Asp Val Gly Ile Ala Gln Val Asn Leu Gly Trp
 100 105 110
 Asn Gly His His Phe Ala Ser Thr Trp Glu Ala Phe Asp Pro Tyr Thr
 115 120 125
 Asn Leu Asn Ala Ala Ala Thr Ile Leu Arg Glu Cys Trp Ala Arg Lys
 130 135 140
 Pro Gly Ser Trp Leu Asp Ala Ala Gly Cys Tyr His His Pro Ala Gly
 145 150 155 160
 Gly Gln Pro Ala Ala Arg Tyr Arg Ala Ile Val Arg Arg His Leu Ala
 165 170 175
 Lys Ile Ser Pro Thr Pro Arg Ile Ser Ala Pro Ala Ala Glu Ala Pro
 180 185 190
 Arg Ser Val Ala Ala Leu Thr Pro Asp Pro Gly Phe Val Trp Thr Glu
 195 200 205
 Pro Gly Arg
 210

<210> 11097
 <211> 137
 <212> PRT
 <213> Enterobacter cloacae

<400> 11097
 Thr Leu Ser Gln Glu Met Asn Ser Met His His Ser Glu Ser Val Val
 1 5 10 15
 Ala Arg Leu Arg Arg Phe Ala Ser Arg Thr Leu Thr Arg Ala Gly Thr
 20 25 30
 Leu Ala Leu Leu Gly Trp Leu Thr Cys Lys Pro Ala Phe Ala Asp Leu
 35 40 45
 Pro Ser Val Glu Ala Pro Glu Ser Gly Gly Gly Ser Gly Leu Ser Gly
 50 55 60
 Gln Ile Lys Gly Tyr Leu Gln Asp Gly Ile Val Ile Gly Gly Leu Val
 65 70 75 80
 Val Ala Ala Val Ala Phe Ile Asn Val Ala Ile Ala Ala Leu His Thr
 85 90 95
 Phe Thr Glu Val Arg Asn Glu Lys Ala Thr Trp Thr Lys Phe Gly Ala
 100 105 110
 Ile Val Val Val Gly Val Val Leu Leu Val Ala Val Ile Trp Leu Leu

115 120 125
 Gly Lys Ser Ala Asp Ile Leu Leu
 130 135

<210> 11098
 <211> 123
 <212> PRT
 <213> Enterobacter cloacae

<400> 11098
 Glu Pro Ala Thr Met Gln Thr Ile Arg Phe Leu Pro Asp Arg Leu Asn
 1 5 10 15
 Ser Glu Pro Val Val Phe Arg Gly Phe Thr Thr His Glu Met Gly Leu
 20 25 30
 Ala Ala Leu Ala Gly Ala Gly Ala Gly Leu Leu Leu Ser Leu Pro Phe
 35 40 45
 Ile Pro Leu Ala Gly Trp Val Val Val Pro Thr Gly Leu Leu Val Met
 50 55 60
 Pro Leu Leu Leu Val Trp Phe Gly Gly Arg Trp Met Ala Arg Leu Lys
 65 70 75 80
 Arg Gly Lys Pro Glu Asn Trp Leu Trp Gln Arg Leu Glu Thr Lys Lys
 85 90 95
 Arg Arg Leu Gly Met Gly Asn Pro Lys Leu Ile Val Asp Ala Arg Gly
 100 105 110
 Trp Ser Val Lys Arg Asn Arg Arg Ala Ser
 115 120

<210> 11099
 <211> 158
 <212> PRT
 <213> Enterobacter cloacae

<400> 11099
 Ile Ser Leu Gln Arg Thr Gly Gly Gly Lys Thr Arg Arg Ala Glu Ser
 1 5 10 15
 Gly Pro Ser Ala Arg Ser Asp Gly Glu Thr Thr Gly Ala Cys His Gly
 20 25 30
 Met Met Thr Leu Lys Tyr Pro Glu Pro Ala Ile His Glu His Ser Gly
 35 40 45
 Gly Ala Leu Phe Thr Leu Ser Pro Gln Gly Glu Pro Gly Val Leu Pro
 50 55 60
 Ala Thr His Gln His Leu Val Arg Leu Arg Ala Met Leu Arg Gln Arg
 65 70 75 80
 Leu Thr Gly Pro Val Lys Met Thr Cys His Pro His Arg Val Gly Leu
 85 90 95
 Ser Ser Ser Val Ala Ile Tyr Leu Glu Gly Lys Leu Lys Gln Ala Val
 100 105 110
 Asn Ile Leu Ile Thr Val Thr Gly Gln Thr Ser Trp Pro Gln Glu Glu
 115 120 125
 Glu Tyr Ala His Pro Arg Trp Tyr Ile Thr Val Pro Asp Ser Ala Asp
 130 135 140
 Leu Val Tyr Leu Met Leu Trp Ile Asn Gly Leu Asp Val
 145 150 155

<210> 11100
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 11100
 Arg Arg Phe Pro Met Lys His Ser Pro Gln Arg Asn Ala Ala Ile Leu

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1           5           10           15
Asn Leu His Ala Arg Thr Met Gln Ile Asn Gly Thr Val Asp Glu Lys
      20           25           30
Val Glu Gln Leu Arg Lys Met Phe Ala Gln Ser Ser Thr Arg Thr Lys
      35           40           45
Asp Asp Arg Lys His Arg Gly Asp Arg Glu Lys Val Tyr Tyr Glu Gly
      50           55           60

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65

<210> 11101

<211> 163

<212> PRT

<213> Enterobacter cloacae

<400> 11101

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Phe Val Val Pro Asp Ile Glu Phe Asn Ala Ala Phe Leu Ser Asn His
1           5           10           15
Gly His Ala Val Arg Arg Phe Ser Leu Thr Glu Ser Arg Phe Met Lys
      20           25           30
Leu Thr Ser Leu Val Phe Leu Pro Ala Leu Leu Pro Ala Ser Leu Leu
      35           40           45
Ala Gly Thr Val Val Phe Thr Asp Ser Gln His Leu Pro Ala Asn Leu
      50           55           60
Pro Pro Asp Val Pro Val Val Leu Leu Asp Gly Pro Asp Arg Leu Gln
      65           70           75           80
Ala Asp Met Phe Gly Glu Leu Pro Ala Asp Pro Gln Gln Ala Glu Ala
      85           90           95
Gln Val Arg Gln Val Met Thr Ser Pro Ala Trp Gln Gln Lys Gln Leu
      100           105           110
Gln Leu Asn Asp Ser Tyr Arg Gln Val Val Arg Ala Trp Glu Leu Gly
      115           120           125
Ile Lys Lys Val Pro Ala Val Val Phe Asp Asp Arg Asp Val Val Tyr
      130           135           140
Gly Thr Thr Asp Val Ala Val Ala Thr Ser Leu Arg Asn Arg Gly Gly
      145           150           155           160
Gly Gln

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<210> 11102

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 11102

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Arg Asp Asp Ser His Leu Gly Leu Ser Cys Phe Ile His Asp Gly Thr
1           5           10           15
Glu His Phe Arg Asp Met Glu Val Ile Glu Gly Asp Phe Phe Tyr Arg
      20           25           30
Val Arg Gln Val Asp Thr Gly Cys Ala Asp Ile Ser Leu Ile His Val
      35           40           45
His Arg Gln Gly Phe Asp Gly Phe Asp Leu Thr Val Thr Gln Ala Leu
      50           55           60
Glu Val Thr Arg Gln Ala Phe Asn Pro Ala Ile Pro Glu Leu Gln
      65           70           75           80
Gly Leu Ser Leu Cys Ile Arg Asp Asn Arg Asp Val Leu Met Thr Leu
      85           90           95
Phe Glu Gly Asp Leu Ile Asn Thr Glu Val Thr Cys
      100           105

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<210> 11103

<211> 190
 <212> PRT
 <213> Enterobacter cloacae

<400> 11103

```

Gln Arg Arg Asn Asp Met Ile Arg Pro Val Phe Leu Leu Thr Ser Phe
1          5          10          15
Phe Leu Leu Ser Gly Cys Ala Thr Thr Asp Trp Ala Ala Ile Asn Lys
          20          25          30
Gln Val Ser Asp Thr Ala Ala Asn Leu Lys Lys Thr Leu Gly Gly Asn
          35          40          45
Asp Ser Gly Glu Ser Gly Gly Met Pro Leu Met Ser Pro Ala Gly Gln
          50          55          60
Gln Ala Met Lys Ser Val Asp Lys Thr Phe Ser Val Pro Val Asp Val
          65          70          75          80
Asp Thr Ala Ala Ala Arg Leu Lys Arg His Tyr Lys Phe Ile Ser Thr
          85          90          95
Gln Glu Leu Glu Ala Leu Arg Gln Ala Thr Asn Asp Gly Asp Trp Lys
          100          105          110
Ala Ala Ala Glu Asp Asp Ala His Pro Val Trp Asp Ala Met Pro Gly
          115          120          125
Ser Tyr Tyr Lys Met Gly Ser Asp Trp Asn Gly Arg Asp His Leu Asp
          130          135          140
Ile Glu Ile Glu Lys Asn Gly Ser Gly Ser Arg Leu Tyr Val Val Tyr
          145          150          155          160
Arg Ser Ser Ser Ser Gln Arg Leu Ala Gly Ser Gly Val Thr Lys Leu
          165          170          175
Met Asn Asp Val Arg Ala Val Ala Ala Gly Glu Lys Arg
          180          185          190

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<210> 11104
 <211> 90
 <212> PRT
 <213> Enterobacter cloacae

<400> 11104

```

Ser Gly Gln His Leu Arg Ile Thr Asp Met Pro Val Ile Leu Arg Ile
1          5          10          15
Asn Gly Phe Arg Phe Phe Phe Tyr Ser Asn Glu Gly Asn Pro Leu Glu
          20          25          30
Pro Ala His Ile His Val Met Lys Ala Gly Ser Glu Ala Lys Phe Trp
          35          40          45
Leu Thr Pro Ser Val Val Leu Ala Ser Asn Asp Gly Phe Asn Ser Arg
          50          55          60
Val Leu Lys Glu Leu Thr Gly Ile Val Glu Asp Asn Gln Ala Leu Phe
          65          70          75          80
Leu Glu Ala Trp Asn Asp Tyr Phe Ser
          85          90

```

<210> 11105
 <211> 255
 <212> PRT
 <213> Enterobacter cloacae

<400> 11105

```

Arg Pro Pro Asp Arg Ala Gln Ser Arg Ile Thr Glu Arg Ile Met Lys
1          5          10          15
Leu Lys His Thr Phe Leu Ala Ala Met Leu Leu Ser Pro Pro Thr Leu
          20          25          30
Ala Ala Thr Thr Ser Gly Gln Thr Asp Val Ser Arg Gln Glu Ser Thr
          35          40          45

```

Gln Arg Ala Asp Ser Ala Gln Gln Asn Leu Gln Gln Gln Ala Gly Gln
 50 55 60
 Trp Gly Leu Ser Thr Asp Tyr Gln Arg Tyr Gln Gln Leu Met Lys
 65 70 75 80
 Gly Pro Arg Gly Ile Gln Ser Pro Gly Leu Asp Pro Leu Ser Thr Leu
 85 90 95
 Gly Ile Glu Ala Gln Thr Pro Ala Glu Arg Arg Lys Phe Ala Glu Lys
 100 105 110
 Trp Val Lys Glu Glu Phe Ala Arg Thr Gln Lys Glu Leu Asp Phe Gln
 115 120 125
 Arg Glu Val Asn Ala Ala Trp Gln Arg Leu Tyr Pro Gly Thr Leu Pro
 130 135 140
 Val Asn Met Gly Asn Ala Ser Gly Val Ala His Asp Ser Gly Gly Arg
 145 150 155 160
 Leu Ala Leu Phe Val Arg Ser Lys Asp Cys Ala Thr Cys Asp Ala Lys
 165 170 175
 Leu Ser Ala Val Leu Ala Asp Asn Arg Pro Val Asp Ile Tyr Leu Val
 180 185 190
 Asp Ser Gln Gly Ser Asp Asp Ala Leu Arg Ser Trp Ala Arg Asp His
 195 200 205
 His Ile Pro Val Glu Lys Val Arg Lys Arg Gln Ile Thr Leu Asn His
 210 215 220
 Asp Gly Gly Arg Trp Met Arg Phe Gly Asn Gly Leu Met Pro Val Leu
 225 230 235 240
 Leu Gln Gln Ala Gly Asp Gly Lys Trp Val Ile Ala Ala Phe
 245 250 255

<210> 11106

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 11106

Thr Cys Arg Ser Gln Glu Gly Arg Met Ala Glu Val Lys Arg Pro Pro
 1 5 10 15
 Gln Gln Gln Thr Leu Pro Glu Arg Lys His Gly Ile Leu Tyr Asn Leu
 20 25 30
 Leu Trp Gly Trp Pro Trp Ala Leu Val Gly Val Val Leu Ser Ser Leu
 35 40 45
 Leu Leu Ser Leu Leu Ile Glu Tyr Ile Gly Ile Ala Phe Phe Trp Pro
 50 55 60
 Glu Ala Gly Ala Ala His Ser Glu Ala Val Met Asn Thr Glu Leu Gly
 65 70 75 80
 Trp Leu Ser Thr Glu Phe Thr Arg Ser Leu Leu Leu Ser Glu Pro Ser
 85 90 95
 Val Thr Val Val Arg Trp Val Thr Thr Ala Tyr Gln Trp Ala Phe Val
 100 105 110
 Asp Ser Gly Phe Leu Asp Trp Val Arg Gln Gln Tyr Ala His Gln Met
 115 120 125
 His Ser Asp Asn Ala Val Thr Arg Glu Ile Asn Ser Trp Ser Gly Trp
 130 135 140
 Leu Ala Gly Tyr Leu Arg Glu Tyr Leu Leu Ala Thr Val Trp Ile Ser
 145 150 155 160
 Ile Ile Thr Leu Val Arg Val Thr Ile Leu Val Leu Ser Val Pro Leu
 165 170 175
 Phe Val Leu Val Val Val Ala Leu Val Glu Gly Leu Gly Arg Arg
 180 185 190
 Asp Leu Arg Arg Tyr Gly Ala Gly Tyr Glu Ser Ser Phe Val Tyr His
 195 200 205
 His Ala Lys Lys Leu Val Lys Pro Ala Ala Val Val Pro Ala Met Leu
 210 215 220

Tyr Leu Ser Trp Pro Thr Ala Val Tyr Pro Asn Leu Leu Leu Leu Pro
 225 230 235 240
 Ala Thr Val Leu Leu Gly Ile Ala Val Thr Val Thr Thr Ala Ser Phe
 245 250 255
 Lys Lys Tyr Leu
 260

<210> 11107

<211> 88

<212> PRT

<213> Enterobacter cloacae

<400> 11107

Leu Pro Ala Gly Ala Ala Leu Met Ser Met Thr Ser Glu Gln Thr Asn
 1 5 10 15
 Ala Phe Lys Ala Gly Ser Gly Ser Leu Asp Val Asn Ile Leu His Leu
 20 25 30
 Leu Cys Ile Gly Ala Leu Leu Ala Phe Leu Phe Leu Trp Ala Ala Trp
 35 40 45
 Ala Leu Ser Asp Val Trp Thr Gly Trp Ser Asn Thr Lys Val Arg Asp
 50 55 60
 Ala Ala Leu Gly Arg Phe Ala Val Arg Thr Val Leu Leu Leu Leu Val
 65 70 75 80
 Cys Ile Trp Met Phe Ala Ser
 85

<210> 11108

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 11108

Thr Gly Glu Val Arg Ser Val Ser Val Met Ser Lys Asn Pro His Tyr
 1 5 10 15
 Arg Ala Gly Leu Met Ala Leu Ser Phe Ala Leu Leu Pro Leu Ala Thr
 20 25 30
 Leu Val Ser Arg Pro Ala Gly Ala Asp Glu Leu Met Lys Trp Glu Arg
 35 40 45
 Ile Pro Leu Gln Ile Pro Leu Lys Val Gly Gln Glu Arg Val Val Phe
 50 55 60
 Val Asp Lys Asn Val Arg Val Gly Phe Pro Pro Thr Leu Asn Gly Lys
 65 70 75 80
 Leu Arg Val Gln Ser Thr Gly Gly Thr Val Tyr Leu Lys Ala Asp Ser
 85 90 95
 Ala Phe Pro Gln Thr Arg Val Gln Leu Gln Asp Val Glu Ser Gly Glu
 100 105 110
 Val Leu Leu Phe Asp Ile Ala Ala Gly Glu Lys Gly Pro Thr Glu Pro
 115 120 125
 Val Arg Leu Val Tyr Ser Gly Asp Val Ser Thr Leu Ser His Ala Gly
 130 135 140
 Asp Ala Ala Gly Gln Pro Gly Gly Ala Asp Arg Ala Ala Ser Gly Ser
 145 150 155 160
 Gly Ser Ser Ala Pro Thr Gly Ser Asp Asp Gly Thr Gln Ala Arg Arg
 165 170 175
 Lys Lys Ile Arg Tyr Ser Ala Pro Ile Pro Val Leu Leu Thr Arg Tyr
 180 185 190
 Ala Ala Gln Ser Leu Tyr Ala Pro Ala Arg Thr Val Glu Ala Val Pro
 195 200 205
 Gly Ile His Pro Val Asn Pro His Leu Pro Arg Arg Val Ser Thr Leu
 210 215 220
 Tyr Pro Ser Glu Pro Leu Thr Val Thr Pro Leu Ala Gly Trp Gly Val

225					230					235				240
Ala	Asn	Arg	Ser	Val	Val	Ala	Leu	Arg	Leu	Thr	Asn	Thr	Gly	Ser
				245					250					255
Lys	Val	Val	Leu	Asp	Pro	Arg	Ala	Leu	Gln	Gly	Gln	Phe	Val	Ser
			260					265					270	
Thr	Phe	Gln	His	Arg	Trp	Val	Gly	Pro	Ala	Gly	Thr	Pro	Glu	Asp
		275					280					285		
Thr	Thr	Val	Tyr	Val	Val	Thr	Ala	Gly	Arg	Pro	Glu	Ser	Ala	Phe
	290					295				300				
Ala	Glu	Pro	Ser	Ala	Leu	Arg	Lys	Ala	Thr	Arg	Thr	Val	Lys	Gln
305					310					315				320
Ala	Arg	His	Ala	Asp										
				325										

<210> 11109

<211> 982

<212> PRT

<213> Enterobacter cloacae

<400> 11109

His	Ala	Cys	Ala	Gly	Leu	Gln	His	Arg	Val	Pro	Val	Leu	Gln	Pro	Asp
1				5					10					15	
Ala	Val	Cys	His	Ala	Trp	Arg	Ala	Tyr	Gly	Gly	Pro	Val	Met	Leu	Ser
			20					25					30		
Leu	Phe	Thr	Arg	Ser	Lys	Ser	Thr	Asp	Arg	Gln	Thr	Pro	Pro	Asp	Asp
		35					40					45			
Gly	Gln	Ser	Val	Gln	Ala	Asp	Glu	Thr	Leu	Thr	Ala	Val	Val	Lys	Gly
	50					55					60				
Arg	Gln	Pro	Leu	Lys	Arg	Pro	Gly	Lys	Met	Thr	Arg	Gln	Asp	Glu	Glu
65					70					75				80	
Lys	Val	Tyr	His	Ala	Ser	Pro	Ser	Ile	Ile	Asp	Phe	Leu	Pro	Trp	Ala
			85						90					95	
Glu	Phe	Leu	Asp	Glu	Glu	Gln	Cys	Leu	Leu	Leu	Asp	Asp	Gly	Val	Ser
			100					105					110		
Val	Gly	Ala	Val	Tyr	Asp	Val	Thr	Pro	Val	Ala	Thr	Glu	Gly	Arg	Thr
	115						120					125			
Glu	Glu	Arg	Leu	Glu	Gln	Ile	Arg	Asp	Ser	Val	Glu	Asp	Ala	Leu	Gln
	130					135					140				
Asp	Ser	Phe	Asp	Glu	His	Asp	Val	Asn	Pro	Trp	Ile	Val	Gln	Phe	Phe
145					150					155					160
Cys	Gln	Asp	Glu	Asp	Asp	Thr	Asp	Ala	Tyr	Leu	Asp	Arg	Leu	Arg	Gly
			165						170					175	
Tyr	Val	Lys	Pro	His	Ala	Gln	Arg	Thr	Ala	Phe	Thr	Asp	Ala	Trp	Leu
		180						185					190		
Gly	Glu	Met	Glu	Arg	His	Ile	Arg	Ser	Ile	Ser	Arg	Pro	Glu	Gly	Leu
	195					200						205			
Phe	Thr	Asp	Ser	Leu	Ile	Thr	Gly	Gln	Pro	Trp	Arg	Gly	Gln	Gln	Arg
	210					215					220				
Arg	Thr	Arg	Met	Val	Val	Tyr	Arg	Trp	Leu	Gly	Lys	Ser	Arg	Asp	Pro
225					230					235					240
Met	Pro	Pro	Val	Ala	Met	Leu	Asn	Gln	Val	Cys	Asp	Arg	Val	Val	Asn
				245					250					255	
Ala	Leu	Gly	Gly	Ala	Gly	Ile	Arg	Cys	Thr	Arg	Gln	Asn	Gly	Leu	Gln
		260						265					270		
Val	His	Gly	Trp	Leu	Leu	Arg	Leu	Phe	Asn	Pro	Ser	Pro	Asp	Trp	Val
	275						280					285			
Glu	Lys	Thr	Thr	Leu	Tyr	Arg	Gln	Ala	Ala	Tyr	Ala	Asp	Pro	Arg	Glu
	290					295					300				
Thr	Pro	Glu	Gly	Thr	Val	Pro	Val	Ser	Asn	Asp	Phe	Ala	Glu	Thr	Leu
305					310					315					320
Trp	Phe	Thr	Pro	Pro	Val	Ser	Asp	Pro	Glu	Asn	Gly	Val	Trp	Trp	Ile

				325					330					335	
Asp	Asn	Lys	Pro	His	Cys	Ala	Val	Ala	Val	Glu	Lys	Leu	Arg	Thr	Pro
			340					345					350		
Pro	Glu	Pro	Gly	Thr	Leu	Thr	Gly	Glu	Lys	Ser	Arg	Gly	Glu	Lys	Lys
		355					360					365			
Ile	Asn	Ala	Leu	Met	Asp	Met	Phe	Pro	Glu	Gly	Thr	Met	Val	Cys	Met
	370				375						380				
Thr	Val	Val	Val	Gln	Pro	Gln	Asp	Arg	Leu	Glu	Gln	Phe	Asn	Arg	Arg
385				390						395					400
Leu	Ser	Lys	Asn	Ala	Val	Gly	Glu	Asn	Thr	Glu	Ser	Gly	Arg	Val	Arg
			405					410						415	
Gln	Asp	Val	Lys	Thr	Val	Lys	Glu	Tyr	Leu	Gly	Asn	Arg	His	Lys	Leu
			420				425						430		
Tyr	Arg	Ala	Gly	Ile	Thr	Phe	Leu	Leu	Arg	Gly	Asp	Asp	Met	Thr	Ser
		435				440						445			
Leu	Lys	Arg	Lys	Arg	Leu	Glu	Leu	Ser	Thr	Val	Leu	Leu	Gly	Ala	Gly
	450				455						460				
Leu	Gln	Pro	Val	Arg	Pro	Glu	Phe	Glu	Glu	Gly	Pro	Leu	Asn	Ser	Trp
465				470						475					480
Leu	Arg	Ala	Leu	Pro	Met	Cys	Phe	Asn	Pro	Asp	Ser	Asp	Lys	Lys	His
			485					490						495	
Trp	Tyr	Thr	Arg	Leu	Thr	Trp	Val	Gln	His	Leu	Ala	Gly	Leu	Leu	Pro
			500					505					510		
Val	Thr	Gly	Arg	Glu	Thr	Gly	Thr	Gly	His	Pro	Gly	Phe	Ser	Phe	Phe
		515				520						525			
Asn	Arg	Gly	Gly	Asp	Thr	Leu	Thr	Phe	Asp	Pro	Leu	Asn	Lys	Leu	Asp
	530					535					540				
Arg	Thr	Gln	Asn	Ala	His	Leu	Leu	Leu	Phe	Gly	Pro	Thr	Gly	Ala	Gly
545				550						555					560
Lys	Ser	Ala	Thr	Leu	Cys	Ala	Ala	Leu	Ser	Gln	Leu	Met	Ala	Val	His
			565					570						575	
Arg	Pro	Arg	Leu	Phe	Ile	Ala	Glu	Ala	Gly	Asn	Ser	Phe	Gly	Leu	Leu
			580				585						590		
Ala	Asp	Phe	Phe	Asp	Ser	Leu	Gly	Leu	Thr	Val	Asn	Lys	Ile	Ser	Val
		595					600					605			
Lys	Pro	Gly	Ser	Gly	Val	Ser	Leu	Pro	Pro	Phe	Ala	Asp	Ala	His	Lys
	610					615					620				
Leu	Val	Glu	Glu	Gly	Leu	Ala	Ala	Gln	Ala	Val	Asp	Glu	Ser	Asp	Leu
625				630						635					640
Pro	Asp	Ile	Asp	Thr	Asp	Asp	Asp	Gly	Glu	Asp	Asp	Lys	Arg	Asp	Val
			645					650						655	
Leu	Gly	Glu	Met	Glu	Ile	Ser	Ala	Arg	Met	Met	Ile	Thr	Gly	Gly	Asp
			660					665					670		
Pro	Lys	Glu	Glu	Ala	Asp	Leu	Lys	Arg	Ala	Asp	Arg	Ala	Met	Ile	Arg

Asp Glu Ala His Ile Val Thr Val Asn Pro Leu Leu Ser Pro Tyr Met
 820 825 830
 Thr Lys Val Val Lys Met Trp Arg Lys Leu Gly Ala Trp Leu Trp Leu
 835 840 845
 Ala Thr Gln Asn Leu Lys Asp Tyr Pro Asp Ile Ala Glu Lys Met Leu
 850 855 860
 Asn Met Ala Glu Trp Trp Ile Cys Leu Thr Met Pro Pro Glu Glu Val
 865 870 875 880
 Lys Asp Ile Ser Arg Phe Arg Ala Leu Thr Pro Glu Gln Glu Ser Val
 885 890 895
 Leu Leu Ser Ala Ser Lys Leu Ser Gly Cys Tyr Thr Glu Gly Val Val
 900 905 910
 Leu Ala Lys Arg Ile Glu Ala Leu Phe Arg Ala Val Pro Pro Ser Leu
 915 920 925
 Phe Leu Ala Leu Gly Met Thr Glu Lys Glu Glu Lys Ala Glu Arg Arg
 930 935 940
 Ala Leu Met Asn Glu Phe His Cys Ser Glu Leu Glu Ala Ala Lys Arg
 945 950 955 960
 Val Ala Gln Asn Leu Asp Arg Leu Arg Gly Leu Thr Glu Lys Gln Gln
 965 970 975
 Glu Pro Ala Thr Val
 980

<210> 11110

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 11110

Thr Ala Leu Ser Met Lys Arg Leu Ser Ser Cys Ala Lys Cys Leu Leu
 1 5 10 15
 Arg Val Gln His Glu Leu Arg Met Thr Gly Ser Thr Val Gly Ile Glu
 20 25 30
 Lys Arg Tyr Ile Thr Lys Ala Glu Phe Ser Glu Asp Phe Val Lys Ala
 35 40 45
 Ser Glu Asp Phe Lys Tyr Gly Tyr Asp Val Ile Ser Lys Val Asn Val
 50 55 60
 Lys Thr Gly Gln Ser Ile Leu Arg Tyr Ala Val Arg Leu Gln Gln Lys
 65 70 75 80
 Trp Asn Asp Glu Asn Cys Ile Leu Ile Tyr Asp His Asp Asp Asp Lys
 85 90 95
 Leu Trp Gly Arg Val Lys Ala Ser Asp Ser Lys Asp Asp Ala Gly Ile
 100 105 110
 Ser Trp Tyr Leu Gly Phe Phe His Gly Arg Val Glu Ala Trp Lys Asn
 115 120 125
 Asp Pro Leu Ile Val Ile Ser Phe Arg Asp Glu Ile Ile Pro Ala Pro
 130 135 140
 Gln Gly Phe Asp Lys Gly Phe Glu Leu Ala Val Ile His Ala Ile Ser
 145 150 155 160
 Asp His Pro Thr Leu Phe Gly Glu Asn Trp Glu Lys Lys Leu Pro Glu
 165 170 175
 His Met Arg Glu Lys Arg Lys Gln Asn Ala His Thr Leu Asn Tyr Phe
 180 185 190
 Val Asp Val Asn Ser Ser Asp Ser Asp Gly Ser Pro Asp Glu Ser Ser
 195 200 205
 Pro Thr
 210

<210> 11111

<211> 519

<212> PRT

<213> Enterobacter cloacae

<400> 11111

Val Arg Asp Val Tyr Arg Ser Gly Ser Leu Lys Met Thr Thr Asn Ser
 1 5 10 15
 Tyr Leu Glu Tyr Phe Leu Thr Leu Leu Gly Trp Val Ile Asn Asn Gly
 20 25 30
 Leu Trp Asn Val Leu Leu Ser Thr Gly Leu Phe Val Leu Pro Leu Ala
 35 40 45
 Phe Lys Val Val Gly Ile Trp Leu Arg Val Arg Glu Gly Glu Asp
 50 55 60
 Glu Gly Asn Lys Gly Met Leu Ser Leu Pro Arg Ile Glu Asn Ala Leu
 65 70 75 80
 Tyr Ala Gly Phe Leu Val Met Ile Ala Cys Cys Val Pro Leu Ile Asn
 85 90 95
 Val Ser Leu Ser Thr Met Gln Tyr Asp Thr Thr Arg Ala Lys Ser Cys
 100 105 110
 Gly Val Trp Thr Pro Lys Ala Pro Asp Glu Ser Gly Tyr Ala Gly Val
 115 120 125
 Val Thr Ser Leu Asn Asp Gln Thr Ala Ala Ala Pro Val Trp Trp Val
 130 135 140
 Leu Ile His Lys Leu Ser Lys Gly Val Thr Gln Ala Ala Val Ala Thr
 145 150 155 160
 Ile Pro Cys Arg Pro Asp Met Arg Gln Ile Arg Phe Glu Val Gln His
 165 170 175
 Thr Arg Ile Asp Asn Lys Ala Leu Ala Gln Glu Leu Gln Asp Phe Thr
 180 185 190
 Asn Asp Cys Tyr Ser Val Ala Leu Tyr Leu Trp Lys Gln Gln Asp Gln
 195 200 205
 Gly Gln Thr Lys Asp Lys Thr Thr Leu Arg Asp Ile Glu Trp Ile Gly
 210 215 220
 Ser Ser Thr Phe Leu Ser Arg Tyr Tyr Pro Ser Leu Gln Ser Lys Leu
 225 230 235 240
 Pro Arg Ala Ala Phe Pro Trp Thr Asp Ser Arg Asp Ser Gly Arg Pro
 245 250 255
 Asn Thr Gly Arg Gly Gly Tyr Pro Thr Cys Ser Glu Trp Trp Ser Ser
 260 265 270
 Ser Asp Thr Gly Leu Lys Ala Arg Val Lys Asp Gln Ala Asp Pro Asp
 275 280 285
 Met Trp Leu Arg Ile Ser Ala Ala Met Lys Met Ser Gly Phe Asn Asp
 290 295 300
 Ser Asp Tyr Gln Glu Ala Val Ile Arg Arg Leu Val Ser Pro Glu Ser
 305 310 315 320
 Leu Thr Val Ser Gln Asn Gly His Val Tyr Ala Gly Tyr Gly Gly Asn
 325 330 335
 Ala Asp Phe Thr Leu Asp Asn Ala Ala Arg Val Ala Ala Ile Gly
 340 345 350
 Gly Thr Ser Leu Gly Ser Leu Ala Ala Phe Pro Ala Phe Asp Ala Met
 355 360 365
 Arg Gln Ala Leu Pro Met Val Gln Ala Ile Leu Leu Met Ala Ile Tyr
 370 375 380
 Val Met Leu Pro Leu Ile Leu Ala Phe Ala Ala Tyr Glu Phe Lys Thr
 385 390 395 400
 Val Ile Thr Leu Thr Phe Val Ile Phe Ala Leu Asn Phe Leu Thr Phe
 405 410 415
 Trp Trp Glu Leu Ala Arg Trp Leu Asp Ser Trp Leu Leu Thr Ala Leu
 420 425 430
 Tyr Ser Ser Asp Thr His Ser Arg Phe Asn Met Ala Gly Leu Gln Asn
 435 440 445
 Ser Ser Asp Asp Leu Ile Met Asn Leu Val Met Gly Ala Met Phe Ile
 450 455 460

Val Leu Pro Ala Val Trp Leu Gly Ala Leu Ser Trp Ala Gly Ala Ser
 465 470 475 480
 Val Gly Val Ala Val Ser Ala Ala Phe Gln Lys Gly Thr Glu Thr Ala
 485 490 495
 Gln Asn Thr Gly Gly Lys Leu Gly Glu Ala Ala Gly Asn Ala Ile Gly
 500 505 510
 Ser Lys Ala Thr Lys Gly
 515

<210> 11112

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 11112

Thr Cys Gln Arg Arg Val Ser Glu Lys Met Ser Glu Gln Gln Pro Phe
 1 5 10 15
 His Thr Asp Pro Ala Pro Ala Arg Lys Arg Phe Ser Trp Arg Pro Arg
 20 25 30
 Arg Arg Leu Ile Trp Gly Ala Ala Gly Gly Val Ala Leu Ala Gly Ile
 35 40 45
 Leu Ala Leu Gly Tyr Thr Ala Phe Ser Leu Gly Ile Ser Asp Leu Asp
 50 55 60
 Glu Arg Leu Thr Arg Leu Glu Ser Gln Gly Ser Thr Ala Ala Thr Val
 65 70 75 80
 Glu Thr Val Ala Ala Leu Gln Ser Asp Val Thr Thr Leu Arg Ala Gly
 85 90 95
 Leu Gln Asp Ser Gln Lys Lys Leu Gly Glu Met Gln Gln Glu Leu Ser
 100 105 110
 Ala Ala Ala Lys Gln Ala Gly Ser Asp Asp Ala Val Arg Gln Ser Leu
 115 120 125
 Arg Thr Leu Gln Asp Ala Gln Gln Gly Leu Glu Thr Arg Leu Ser Ala
 130 135 140
 Leu Thr Glu Gln Leu Thr Ala Leu Lys Ser Gln Pro Ala Pro Ala Pro
 145 150 155 160
 Ala Ala Pro Val Ala Ala Pro Val Lys Lys Asn Ala Pro Ala Ala Lys
 165 170 175
 Lys Pro Arg Pro Ala Asp Thr Arg Arg Ala Ala Pro Ser Leu Arg Met
 180 185 190
 Ala Arg Asn Ala Pro Phe Val Leu Thr Gly Val Glu Lys Arg Gly Ala
 195 200 205
 Glu Ser Trp Ala Ala Ile Ala Pro Arg Gly Tyr Ser Ser Leu Ser Gln
 210 215 220
 Val Ala Leu Val Gly Glu Gly Glu Thr Val Ala Gly Trp Thr Leu Val
 225 230 235 240
 Ser Ala Gly Tyr Gly Glu Ala Thr Phe Arg Val Asn Gly Arg Leu Thr
 245 250 255
 Val Leu Arg Ala Glu
 260

<210> 11113

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 11113

Thr Arg Glu Ile Thr Leu Met Lys Thr Leu Ser Leu Leu Leu Phe Thr
 1 5 10 15
 Leu Leu Pro Leu Thr Gly His Ala Glu Leu Asn Val Ile Ala Asp Leu
 20 25 30
 Gly Gly Glu Asp Ala Ala Pro Tyr Phe Glu Ala Val Asn Lys Gln Pro

35 40 45
 Gly Met Ser Thr Gly Asn Asp Thr Thr Ser Ser Pro Pro Ser Pro Val
 50 55 60
 Leu Gln Gly Glu Ala Ala Met Leu Pro Val Phe Thr Pro Glu Leu Arg
 65 70 75 80
 Pro Gly Ser Ile Ala Asp Arg Pro Leu Gln Leu Pro Gly Ile Gly Ala
 85 90 95
 Leu Phe Leu Val Gly Asp Asp Ala Leu Ser Arg Glu Trp Leu Lys Ala
 100 105 110
 Asn Ala Gly Glu Leu Ala Glu Gln His Ala Ala Gly Met Ile Val Asn
 115 120 125
 Val Thr Asp Met Ala Thr Val Arg Glu Leu Arg Glu Leu Ala Pro Gly
 130 135 140
 Val Ser Leu Ala Pro Ala Ser Gly Ser Glu Leu Ala Arg Arg Leu Gln
 145 150 155 160
 Ile Ala His Tyr Pro Val Leu Ile Thr Asp Thr Gly Leu Thr Gln Gln
 165 170 175
 Val Lys Pro
 180

<210> 11114
 <211> 179
 <212> PRT
 <213> Enterobacter cloacae

<400> 11114
 Pro Phe Ser Pro Gly Arg Thr Ser Gly Ser Ile Ser Glu Glu Ser Phe
 1 5 10 15
 Met His Ile Ile Leu Asn Ser Leu Arg Cys Ala Leu Trp Leu Val Phe
 20 25 30
 Cys Leu Phe Arg His Ala Val Phe Val Pro Ala Ala Phe Gly Gly Val
 35 40 45
 Cys Leu Leu Ala Trp Phe Val Phe Gly His Pro Val Ser Asp Leu Asn
 50 55 60
 Asp Gln Leu Gln Lys Glu Ala Lys Ala Trp Arg Thr Ala Pro Pro Gly
 65 70 75 80
 His Tyr Met Trp Glu Gly Cys Pro Val Pro Asp Asn Ala Ala Pro Pro
 85 90 95
 Asp Ala Lys Pro Ala Ala Cys Thr Val Thr Ala Val Ser Thr Glu Thr
 100 105 110
 Ala Ala Asn Asn Tyr Leu Leu Ser Leu Arg Ala Val Trp Ile Ile Phe
 115 120 125
 Phe Ile Leu Ser Asn Val Leu Tyr Val Leu Trp Arg Leu Leu Ala Asp
 130 135 140
 Ala Leu Arg Phe His Ser Gln Pro Cys Arg Glu Ala Gly Ser Ala Lys
 145 150 155 160
 Gly Thr Tyr Thr Arg Arg Ala Asp Gly Lys Ile Ile Lys Glu Ala Asp
 165 170 175
 Asp Glu

<210> 11115
 <211> 135
 <212> PRT
 <213> Enterobacter cloacae

<400> 11115
 Pro Asp Ala Ser Ser Ser Ala Ser Cys Pro His Pro Leu Ile Leu Leu
 1 5 10 15
 Glu Val Arg Met Asn Ser His Arg Pro Ala Met Arg Arg Asn Arg Arg
 20 25 30

Val Pro Gly Ile Thr Gly Leu Val Leu Leu Thr Phe Leu Ala Ser Ala
 35 40 45
 Val Ala Gln Ala Ser Glu Lys Asp Glu Leu Ala Ser Val Gln Arg Gln
 50 55 60
 Leu Asp Gln Val Gln Ala Ser Leu Glu Arg Ala Arg Val Ala Ala Ala
 65 70 75 80
 Gln Ala Asp Pro Ala Asp Arg Gly Arg Phe Phe Phe Asp Tyr Arg Gln
 85 90 95
 Ala Thr Ser Asp Leu Asn Thr Ile Arg Ser Gly Ile Asp Arg Tyr Leu
 100 105 110
 Glu Pro Ser Arg Ala Gln Pro Arg Asp Pro Ser Tyr Val Ala Gly Asn
 115 120 125
 Tyr Arg Arg Glu Arg Pro
 130 135

<210> 11116

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 11116

Gln Glu Ser Phe Met Ser Arg Phe Arg His Ala Val Lys Asp Arg Asp
 1 5 10 15
 Gln His Ile Gln Thr Leu Arg Ile Ala Cys Ala Val Leu Ala Phe Phe
 20 25 30
 Leu Leu Phe Thr Cys Ala Gly Trp Met Leu Ala Pro Ser Lys Leu Thr
 35 40 45
 Val His Asn Pro Pro Asp Leu Arg Thr Gly Ser Thr Arg Pro Trp Trp
 50 55 60
 Glu Val Pro Pro Pro Thr Val Tyr Ser Phe Ala Phe Tyr Ile Phe Gln
 65 70 75 80
 Gln Leu Asn Ala Trp Pro Lys Asn Gly Glu Val Asp Tyr Ser Ala Lys
 85 90 95
 Ile Asn Ala Leu Ser Pro Tyr Leu Thr Pro Ser Cys Gln Asp Phe Leu
 100 105 110
 Lys Ala Asp Ala Lys Lys Arg Gly Asp Ala Gly Glu Leu Thr Asp Arg
 115 120 125
 Val Arg Val Val Tyr Glu Val Pro Gly Arg Gly Tyr Gln Ser Gln Ser
 130 135 140
 Val Thr Val Gln Asp Arg Asp His Trp Ile Ala Arg Leu Asp Val Val
 145 150 155 160
 Ala Asp Glu Tyr Phe His Ala Glu Pro Val Lys Arg Ala Leu Val Arg
 165 170 175
 Tyr Pro Leu Lys Val Val Arg Trp Glu Gly Asp Ala Glu Arg Asn Pro
 180 185 190
 Phe Gly Leu Ala Leu Asp Cys Tyr Ala Gly Val Pro Gln Arg Leu Glu
 195 200 205
 Ala Ala Pro Pro Ala Pro Lys Pro Glu Lys Ser Gly Val Phe Gln
 210 215 220

<210> 11117

<211> 234

<212> PRT

<213> Enterobacter cloacae

<400> 11117

Arg Asp Pro Cys Val Phe Cys Gly Ser Val Ala Ala Thr Arg Ser Ala
 1 5 10 15
 Val Ala Cys Arg Arg Thr Phe Thr Ala Leu Ala Arg Trp Pro Ala Phe
 20 25 30
 Thr Gly Tyr Trp Gln Val Leu Pro Ala Ala Gln Cys Pro Gly Val Cys

	35					40					45				
Arg	Phe	Val	Ala	Gln	Pro	Glu	Asn	Pro	Ala	Pro	Ala	Leu	Leu	Pro	Ala
	50					55					60				
Tyr	Asp	Ile	Thr	Gly	Ala	Gly	Ala	Pro	Ala	Glu	Cys	Gln	Cys	Val	Arg
65					70					75					80
Phe	Tyr	Leu	Arg	Arg	Leu	Arg	Ser	Gly	Arg	Leu	Thr	Lys	Glu	Ile	Pro
				85					90					95	
Val	Met	Tyr	Arg	Thr	Val	Phe	Ile	Leu	Ala	Leu	Ser	Cys	Val	Met	Leu
			100					105					110		
Ser	Gly	Cys	Ser	Thr	Ser	Lys	Glu	Glu	Met	Leu	Pro	Ala	Gly	Asp	Asn
		115					120					125			
Thr	Met	Leu	Glu	Leu	Trp	Asn	Gly	Ala	Asp	Gly	Gly	Gly	Ser	Thr	Ser
	130					135				140					
Arg	Gln	Ser	Ala	Ala	Ala	Arg	Asp	Thr	Leu	Arg	Arg	Pro	Leu	Thr	Gly
145					150					155					160
Ser	Glu	Thr	Gln	Ala	Asp	Ala	Gln	Gly	Asp	Arg	Ser	Tyr	Ser	Arg	Thr
				165					170					175	
Gln	Glu	Ser	Glu	Ile	Thr	Gln	Gln	Phe	Pro	Arg	Leu	Pro	Asn	Pro	Asp
			180					185					190		
Met	Val	Met	Tyr	Leu	Tyr	Pro	His	Leu	Ala	Asp	Gly	Asn	Thr	Pro	Val
	195						200					205			
Pro	Gly	Tyr	Ser	Thr	Val	Phe	Pro	Phe	Tyr	Ser	Gln	Thr	Gln	Tyr	Ala
	210					215					220				
Met	Pro	Gly	Glu	Arg	Thr	Glu	Ala	Leu							
225					230										

<210> 11118

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 11118

Pro	Gly	Arg	Trp	Ser	Val	Met	Thr	Thr	Pro	Ser	Arg	Ile	Arg	Thr	Thr
1				5					10					15	
Val	Cys	Ser	Leu	Ala	Val	Ala	Thr	Leu	Leu	Gly	Thr	Ala	Thr	Ala	Pro
			20					25					30		
Ala	Ala	Val	Ala	Ala	Leu	Asn	Thr	Ala	Gln	Ile	Ile	Ala	Ser	Ala	Val
		35					40					45			
Ser	Gln	Asn	Cys	Ile	Ser	Trp	Arg	Val	Ser	Gly	Ile	Cys	Tyr	Trp	Leu
	50					55				60					
Phe	Cys	Thr	Pro	Phe	Gly	Cys	Lys	Val	Arg	Thr	Ser	Val	Lys	Val	Thr
65					70				75						80
His	Phe	Ile	Pro	Gln	Thr	Val	Val	Ser	Thr	Tyr	Val	Ala	Pro	Gly	Gly
				85					90					95	
Asn	Pro	Trp	Gln	Glu	Met	Ala	Phe	Val	Ser	Gln	Thr	Ala	Gly	Gly	Leu
		100						105					110		
Glu	Ser	Ala	Val	Thr	Ser	Gly	Leu	Ser	Gly	Val	Ser	Ala	Gly	Gly	Ala
		115					120					125			
Asn	Pro	Ala	Asp	Met	Lys	Asn	Pro	Gly	Gln	Arg	Lys	Ser	Ala	Val	Arg
	130					135					140				
Phe	Lys	Tyr	Ala	Asp	Ala	Ile	Gly	His	Pro	Ala	Thr	Ser	Leu	Ile	Gly
145					150					155					160
Gly	Ser	Ile	Pro	Gly	Tyr	Ser	Cys	Asp	Thr	Ala	Ala	Thr	Pro	Leu	Met
				165					170					175	
Pro	Tyr	Phe	Leu	Ser	Thr	Leu	Asp	Ser	Ala	Ala	Trp	Arg	Thr	Gly	Val
			180					185					190		
Pro	Glu	Ser	Leu	Tyr	Pro	Glu	Ala	Leu	Val	Pro	Gly	Gln	Arg	Glu	Ile
		195					200					205			
Gly	Ser	Gln	Ala	Ala	Ala	Asn	Met	Trp	Gly	Asn	Val	Tyr	Pro	Arg	Ser
	210					215					220				
Gly	Phe	Val	Ser	Gln	Thr	Asp	Asp	Asp	Lys	Ala	Ser	Ala	Val	Val	Ala

```

225          230          235          240
Gln Arg Val Ala Asp Ile Ile Thr Arg Val Gly Gln Pro His Val Tyr
          245          250          255
Gln Val Leu Lys Gly Asn Arg His Asp Gly Tyr Trp Pro Pro Gly Glu
          260          265          270
Val Thr Glu Asn Thr Gly Thr Arg Asn His Lys Trp Gln Arg Leu Ala
          275          280          285
Pro His Met Thr Gln Ser Cys Ala Val Phe Pro Asp Gly Ser His Thr
          290          295          300
Ala Ala Ser Asp Asn Asn Glu Ala Phe Ala Leu Trp Gln Pro Tyr Ser
305          310          315          320
Cys Cys Lys Lys Arg Gly Gln Lys Phe Leu Gly Ser Thr Asp Ile
          325          330          335

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<210> 11119

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 11119

```

Lys Leu Phe Ser Ser Phe Phe Ser Leu Lys Leu Phe Ile Glu Ala Ser
1          5          10          15
Leu Glu Leu Asp Pro Ile Cys Val Met Ala Ala Ile Lys Val His Asn
          20          25          30
Lys Thr Ala Leu Gln Leu Ile Lys Lys Pro Pro Ala Ile Ser Ala Thr
          35          40          45
Asn Glu Gln Arg Thr Ala Lys Ser Ser Gly Met Trp Pro Asn His Phe
          50          55          60
Gly Ser Leu Tyr Cys Leu Ala Ser Met Thr Gln Arg
65          70          75

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<210> 11120

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 11120

```

Arg Asp Tyr Ser Gly Phe Phe Glu Gln Leu Leu Ile Thr Ala Ser Val
1          5          10          15
Leu Arg Val Thr Asn Lys Phe Ser Asn Ile Ile Gly Leu Ile Phe Phe
          20          25          30
Asn Ala Leu Arg Leu Val Ile Ile Lys Lys Ala Ser Leu Tyr Cys Ala
          35          40          45
Tyr Met Gly Leu Pro Arg Ser Trp Trp Glu Thr His Asn Pro Met Phe
          50          55          60
Asn Leu Pro
65

```

<210> 11121

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 11121

```

His Lys Tyr Ile Leu Ile Phe Lys Asn Gln Ile Ser Met His Asn Tyr
1          5          10          15
Ser Ile Tyr Phe Pro Cys Val Thr Ala Ser Leu Leu Ser Gln Gln Leu
          20          25          30
Lys Leu Thr Phe Leu Gln Leu Ala Tyr Lys Lys Tyr Arg Gly Ile Val
          35          40          45
Tyr Ala Met Asp Asn Lys Ser Asn Ser Asp Pro Ser Phe

```

50

55

60

<210> 11122

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 11122

Cys	Phe	Ile	Ser	Ile	Phe	Ser	Thr	Glu	Lys	Asp	Phe	Lys	Lys	Asn	Phe
1				5					10					15	
Ile	Asn	Ser	Trp	Leu	Cys	Pro	Leu	Ile	Gln	Ile	Thr	Pro	Ser	Gln	Asn
			20					25					30		
Tyr	Leu	Leu	Gln	Gly	Met	Ser	Leu	Asp	Trp	Pro	Tyr	Lys	His	Gln	Arg
		35					40					45			
Leu	Pro	Leu	Gly	Ala	Val	Phe	Leu	Thr	Thr	Thr	Ala				
	50					55					60				

<210> 11123

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 11123

Arg	Ser	Ser	Ala	Thr	Phe	Leu	Met	Lys	Arg	Pro	Gly	Cys	Ser	Pro	Phe
1				5					10					15	
Thr	Ser	Lys	Ser	Arg	Lys	Thr	Thr	Phe	Lys	Glu	Gln	His	Met	Glu	Gln
			20					25					30		
Ile	Thr	Val	Val	Ile	Gly	Asp	Arg	Leu	Gly	Lys	Gly	Gln	Lys	Val	Ala
		35				40						45			
Ala	Gly	Val	Glu	Lys	Ala	Gly	Arg	Ala	Val	Val	Val	Pro	Gly	Met	
	50					55				60					
Ala	Ala	Asp	Met	Lys	Leu	Gly	Asp	Val	Met	Lys	Ala	Glu	Asn	Ala	Thr
65					70					75				80	
Phe	Gly	Ile	Ser	Phe	Cys	Gly	Ser	Gly	Gly	Ala	Gly	Ala	Ile	Thr	Ala
				85				90						95	
Gln	Thr	Lys	Tyr	Gly	Tyr	Lys	Ala	Lys	Tyr	Gly	Met	Arg	Ser	Val	Asp
			100					105					110		
Glu	Gly	Val	Thr	Ala	Ile	Asn	Glu	Gly	Cys	Asn	Val	Leu	Gly	Phe	Gly
		115					120					125			
Phe	Met	Asp	Lys	Glu	Glu	Leu	Gly	Glu	Arg	Leu	Val	Gln	Ala	Trp	Gln
	130					135					140				
Lys	Lys	Tyr	Gly	Ala											
145						150									

<210> 11124

<211> 263

<212> PRT

<213> Enterobacter cloacae

<400> 11124

Lys	Gly	Arg	Leu	Met	Phe	Leu	Ile	Ile	Leu	Ile	Lys	Ser	Leu	Ile	Ile
1				5					10					15	
Gly	Gly	Leu	Val	Gly	Val	Gly	Val	Gly	Ala	Gly	Ala	Ala	Arg	Met	Phe
			20					25					30		
His	Ala	Pro	Thr	Thr	Gln	Gly	Met	Gly	Ala	Phe	Arg	Thr	Leu	Gly	Glu
		35					40					45			
Leu	Asn	Ser	Cys	Glu	Gly	Asp	Pro	Ala	Ser	His	Phe	Ser	Phe	Gly	Leu
	50					55					60				
Gly	Phe	Phe	Phe	Asn	Ala	Trp	Ala	Ser	Ser	Val	Ala	Ala	Gly	Ala	Phe
65				70						75				80	
Thr	Gln	Asp	Val	Asp	His	Arg	Ile	Ile	Pro	Asn	Trp	Gly	Ala	Ala	Ala

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<210> 11125
<211> 214
<212> PRT
<213> Enterobacter cloacae
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<210> 11126
<211> 256
```

<212> PRT

<213> Enterobacter cloacae

<400> 11126

```

Arg Ser Ile Arg Thr Gly Glu Lys Arg Met Lys Leu Thr Pro Asn Phe
1          5          10          15
Tyr Arg Asp Arg Val Cys Leu Asn Val Leu Ala Gly Ser Lys Ala Asn
20          25          30
Ala Ser Ala Ile Tyr Glu Ala Ala Glu Gly His Val Leu Val Gly Val
35          40          45
Leu Ser Lys Asn Tyr Pro Asp Val Ala Ser Ala Val Ala Asp Met Arg
50          55          60
Glu Tyr Ala Lys Leu Ile Asp Asn Ala Leu Ser Val Gly Leu Gly Ala
65          70          75          80
Gly Asp Pro Asn Gln Ser Ala Met Val Ser Glu Ile Ser Arg Gln Val
85          90          95
Gln Pro Gln His Val Asn Gln Val Phe Thr Gly Val Ala Thr Ser Arg
100         105         110
Ala Leu Leu Gly Gln Asn Asp Ser Val Val Asn Gly Leu Val Ser Pro
115         120         125
Thr Gly Thr Val Gly Met Val Lys Ile Ser Thr Gly Pro Leu Ser Ser
130         135         140
Asn Ala Pro Asp Gly Ile Val Pro Val Glu Thr Ala Ile Ala Leu Leu
145         150         155         160
Lys Asp Phe Gly Gly Ser Ser Ile Lys Tyr Phe Pro Met Gly Gly Leu
165         170         175
Lys Cys Arg Asp Glu Tyr Gln Ala Val Ala Glu Ala Cys Ala Arg His
180         185         190
Asp Phe Trp Leu Glu Pro Thr Gly Ile Asp Leu Glu Asn Phe Glu
195         200         205
Ala Ile Leu Gln Ile Ala Leu Asp Ala Gly Val Ser Lys Ile Ile Pro
210         215         220
His Ile Tyr Ser Ser Ile Ile Asp Lys Ala Ser Gly Asp Thr Arg Pro
225         230         235         240
Glu Asp Val Arg Thr Leu Leu Ala Met Thr Lys Lys Leu Val Lys
245         250         255

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<210> 11127

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 11127

```

Ile Asn Leu Cys Thr Leu Gly Lys Tyr Glu Val Leu Val Tyr Ser His
1          5          10          15
Trp Ala Ser Lys Phe Ala Leu Arg Thr Val Gly Pro Ile Val Ala Pro
20          25          30
Gln Glu Arg Met Ile Arg Arg Arg Tyr Lys Asn Glu Asn Phe Pro Thr
35          40          45
Leu Gln Pro Ala Ser Gly Gly Glu Val Arg Glu Asp Pro Val Pro Trp
50          55          60
Thr Val Val His Gln Gly Cys Trp Arg Phe
65          70          75

```

<210> 11128

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 11128

```

Leu Leu Ala Glu Lys Gly Ser Arg Tyr Ala Trp Lys Ile Asn Gly Ile

```

```

1           5           10           15
Ile Met His Arg Asp Leu Val Phe Lys Asn Lys Asn Ile Phe Val Leu
20           25           30
Phe Met Leu Ala Thr Ile Gly Tyr Gly Ile Trp Arg Met Leu Gly Asp
35           40           45
Phe Phe Tyr Leu Glu Gln Thr Ile Val Tyr Arg His Ala Val Ala Asp
50           55           60
Lys Ser Met Leu Tyr Ile Thr Glu Ser Ser Ala Gly Ala Thr Thr Ser
65           70           75           80
Phe Val Tyr Lys Tyr Tyr Leu Tyr Thr Ala Gln Lys Thr Asp Glu Val
85           90           95
Phe Leu Glu Asp Ile Lys Asn Gly Tyr Glu Pro Phe Leu Val Thr Thr
100          105          110
Asp Pro Gly Val Lys Val Ser Ile Glu Asp Arg Thr Ile Phe Leu Lys
115          120          125
Val Ser Gly Asp Ile Phe Lys Phe Asn Asn Ile Val Gly Ser Ala Phe
130          135          140
Ile Tyr Leu Asn Ser Ser Pro Phe
145          150

```

<210> 11129

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 11129

```

Phe Tyr Ser Arg Ala Ile Asn Gly Val Arg Arg Val Ile Asn Gly Ala
1           5           10           15
Val Met Asn Asp Val Gly Glu Gln Ala Val Gln Thr Glu Gln Leu Ala
20           25           30
Lys Thr Met Leu Gln Gln Val Tyr Ala Leu Leu Ala Arg His Asn Ile
35           40           45
Ile Pro Asn Ala Val Gln Glu Gln Met Leu Thr Ser His Val Arg Ala
50           55           60
Met Ala His Arg Ser Val Thr Gly Glu Pro Leu Pro Glu Val Glu Ala
65           70           75           80
Glu Leu Phe Asp Glu Ile Ser Pro Asp Ser Met Gln Leu Ala Arg Glu
85           90           95
Val Val Ala Gln Phe Gly Asn Leu Pro Asp Glu Glu Ala Trp Leu Leu
100          105          110
Ser Val His Phe Glu Val Ala Lys Asp Asn Leu
115          120

```

<210> 11130

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 11130

```

Arg Arg Ala Gly Arg Ala Ser Gly Thr Gly Val Ala Glu Glu Ile Arg
1           5           10           15
Arg Val Ser Met Lys Glu Gln Phe Thr Thr Thr Val Arg Val Lys Gly
20           25           30
Lys Gly Asp Ala Lys Ala Arg Ala Phe Ala Asp Ala Leu Asn His Val
35           40           45
Gln Ala Ala Val Met Lys Ala Ser Pro His Ile Leu Leu Arg Ile Glu
50           55           60
Pro Gln Asp Val Gln Val Val Gln Ala Gln Glu Ala Val Arg Lys Glu
65           70           75           80
Ala Phe Leu Phe Phe Phe Leu Arg Arg Glu Arg Arg Thr Tyr Ser Val
85           90           95

```

Glu Leu Asp Val Thr Val Asn Val Thr Ala Ile Asn Leu Asp Gln Val
 100 105 110
 Asp Phe Val Thr Gln Arg
 115

<210> 11131

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 11131

Pro Leu Val Leu Ile Ser Pro Gly Asp Ala Pro Gly Gly Gly Asn Ser
 1 5 10 15
 Arg Glu Lys Ile Ser Gln Arg Thr Gly Ile Arg Gly Asp Cys Cys Gln
 20 25 30
 Thr Gln Thr Gln Arg Val Arg Gln Arg Gln Gln Gly Ile Asp Leu Ser
 35 40 45
 Val Leu Arg Cys Gly Asn Leu Lys Ser Val Ala Glu Arg Ile Leu Arg
 50 55 60
 Val Val Lys Ala Glu Arg Ile Gly Gly His Leu Gln Leu Thr Arg
 65 70 75 80

<210> 11132

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 11132

Ser Arg Arg Ser Ser Ile Lys Arg Trp Pro Thr Ile Pro Leu Pro Met
 1 5 10 15
 Ile Ala Glu Ser Asp Phe Asp His Tyr Cys Leu Asp Phe Phe Ser Ile
 20 25 30
 Ile Ala Tyr Val Asn Asp Ser Ala Gly Ala Leu Ile Asp Ala Asn Gln
 35 40 45
 Ile Arg Leu His Ile Pro Leu Arg Gly Tyr Ile Tyr Asp Leu Ser Gly
 50 55 60
 Leu Leu
 65

<210> 11133

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 11133

Glu Lys Lys Leu Ile His Val Ser Leu Met Arg Leu Leu Leu Val Met
 1 5 10 15
 Ser Gly Leu Leu Lys Val Lys Lys Asn Ala Met Thr Ala Phe Glu Arg
 20 25 30
 Ala Asp Phe Ser Arg Glu Ser Asp Leu Ile Lys Ser Phe Gln Lys Ile
 35 40 45
 Leu Ser Thr Ile Ala Gly Phe Asn Val Met Gln Ile Thr Leu Tyr Cys
 50 55 60
 Gly Val Asn Asn Arg Leu Arg Gly Asn Asn Cys Phe Asn Leu Val Lys
 65 70 75 80
 Leu Gly Lys Arg Leu Val Trp Val His Thr Ala Leu
 85 90

<210> 11134

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 11134

```

Leu Ala Ser Glu Gln Phe Val Arg Leu Ala Val Ile Asn Asp Leu Cys
1          5          10          15
Thr His Leu Met His Arg Leu Arg Gly Trp Leu Arg Thr Leu Asp Glu
          20          25          30
Ile Leu Gly Thr Ala Ile Thr Ala Ile Arg Glu Leu Ser Ser Ala Ala
          35          40          45
Val Asn Ile Asp Arg Asp Asn Ala Arg Arg Arg Arg
          50          55          60

```

<210> 11135

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 11135

```

Glu Arg Tyr Ile His Arg Leu Phe Ile Phe Leu Thr Val Ser Ala Asn
1          5          10          15
Ala Met Gly Lys Phe Ile Ile Tyr Met Leu Asn Ile Leu Phe Cys Gly
          20          25          30
Tyr Val Leu Ala Thr Cys Leu Ile Ser Leu Val Ser Phe Asp Asn Trp
          35          40          45
Glu Asp Arg Thr Ile Ala Ile Thr Ile Ile Leu Gly Ser Ala Gln Leu
          50          55          60
Ile Ala Thr Leu Leu Asn Arg Ala Leu Pro His Lys Leu His Ile Leu
65          70          75          80
Gly Gly Ile Ala Glu Leu Ile Glu Gly Pro Leu Leu Val Ile Gly Ala
          85          90          95
Ile Val Cys Leu Asp Val Phe Glu Pro Trp Pro Met Lys Ile Ile Gly
          100          105          110
Met Phe Ala Trp Val Ile Phe Met Met Phe Arg Pro Ser Phe Thr Lys
          115          120          125
Arg Asn Lys Glu
          130

```

<210> 11136

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 11136

```

Leu Ile Ala Thr Asn Glu Glu Val Phe Met Thr Ile Arg Asn Asn Arg
1          5          10          15
Thr Glu Ile Ser Leu Ala Leu Gly Glu Ala Val Leu Asp Ile Val Gln
          20          25          30
Lys Gly His Glu Val Ser Arg Glu Asn Leu Ala Gln Ala Met Lys Ile
          35          40          45
Lys Ala Glu Lys Glu Arg Asp Asp Glu Arg Leu Leu Asn Tyr Trp Lys
          50          55          60
Ala Cys Asn Met Leu Val
65          70

```

<210> 11137

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 11137

```

Arg Phe Leu Gly Gly Ala Gly Leu Gln Leu Leu Cys Ile Leu Met Lys

```

```

1           5           10           15
Asn Thr Thr Met Pro Pro Arg Ile Asp Leu Gly Leu Phe Phe Leu Arg
      20           25           30
Leu Thr Gly Ser Leu Leu Leu Leu Tyr Val His Gly Leu Pro Lys Val
      35           40           45
Leu His Phe Ser Glu Glu Leu Thr Arg Ile Glu Asp Pro Phe Gly Phe
      50           55           60
Gly Pro Tyr Ala Ser Leu Ile Pro Ala Ile Val Ala Glu Val Ile Cys
65           70           75           80
Pro Leu Phe Ile Ile Ala Gly Val Tyr Thr Arg Leu Ala Cys Leu Pro
      85           90           95
Ile Ile Ala Val Leu Leu Val Ala Met Leu Ala Val His Pro Asn Trp
      100          105          110
Ser Ile Ala Glu Gly Gln Phe Gly Trp Leu Leu Leu Ile Ile Phe Thr
      115          120          125
Thr Leu Ala Leu Thr Gly Pro Gly Gln Trp Arg Leu Gln Arg Lys Ala
      130          135          140
Ala Glu Arg Phe Ala
145           150

```

<210> 11138

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 11138

```

His Val Gly Gly Arg Ala Ala Arg Arg Gly Lys Pro Gly Leu Gly Glu
1           5           10           15
Gly Val Gly Gly Ala Ala Gly Lys Thr Glu Ala Ala Gln Thr Ala Gly
      20           25           30
Gly Val Val Met Asn Glu Asp Arg Pro Gly Phe Asp Ile Ala Val Asp
      35           40           45
Gln Val Val Leu Met His Leu Ala Gln Gly Thr Ala Asp Ala Asp Arg
      50           55           60
His Leu Asp Lys Ala Gly Asp Pro Gly Asn Arg Leu Thr Cys Pro Ala
65           70           75           80
Arg Gln Gln Phe Lys Ala Glu Trp Arg Val Asp Gln Arg Lys Thr Ser
      85           90           95
Ala Val Leu Gly
      100

```

<210> 11139

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 11139

```

Arg Arg Phe Arg Leu Ala Asn Ser Arg Arg Arg Ala Gly Pro Ser Ser
1           5           10           15
Gly Ser Pro Leu Pro Leu Ser Leu Glu Phe Thr Met Ser Thr Gly Leu
      20           25           30
Ile Ser Leu Ala Ala Gly Val Leu Ile Gly Leu Met Tyr Ala Val Leu
      35           40           45
Lys Val Arg Ser Pro Ala Pro Pro Ala Leu Ala Leu Ile Gly Leu Leu
      50           55           60
Gly Met Leu Ala Gly Glu Gln Ala Met Arg His Leu Leu Ser Arg Asp
65           70           75           80
Asn Pro Ala Ala Val Gln Val Thr Val Pro His Val Gln His Pro Thr
      85           90           95
Gly Ala Ser Ser
      100

```

<210> 11140
 <211> 120
 <212> PRT
 <213> Enterobacter cloacae

<400> 11140
 Ser Asn Cys Ala Gly Gln Arg Gln Thr Met Val Glu Asn Ile Glu Gln
 1 5 10 15
 Arg Ile Tyr Ala Leu Val Arg Arg Tyr Asn Gly Val Tyr Leu Met Asn
 20 25 30
 Asn Glu Glu Lys Gln Lys Leu Leu Asn Ala Lys Thr Asp Leu Asp Thr
 35 40 45
 Asp Met Gln Leu Asp Val Thr Glu Ala Glu Asp Leu Met Asp Glu Phe
 50 55 60
 Phe Lys Glu Phe Asn Val Asp Arg Gly Asn Phe Asn Ile Asn Thr Tyr
 65 70 75 80
 Tyr Pro Asp Glu Pro Phe Ser Trp Asn Pro Phe Lys Lys Phe Pro Val
 85 90 95
 Val Met Val Pro Asp Phe Thr Ile Gly Met Leu Ile Glu Ser Ala Lys
 100 105 110
 Ala Gly Lys Trp Leu Tyr Asp
 115 120

<210> 11141
 <211> 154
 <212> PRT
 <213> Enterobacter cloacae

<400> 11141
 Thr Met Asp Thr Thr Glu Glu Leu Asn Glu Thr Tyr Phe Tyr Ala Gly
 1 5 10 15
 Arg Thr Asn Leu Thr Ala Ala Gly Leu Phe Phe Met Ile Tyr Cys Glu
 20 25 30
 Ser Ile Ala Asp His Phe Gly Ile Asp Asp Val Ala Gly Ile Ala Ala
 35 40 45
 Leu Tyr Ser Gly Ala Asn Asn Gln Thr Thr Arg Lys Lys Pro Ala Gly
 50 55 60
 Ala Thr Glu Gly Thr Ser Arg Ala Ser Lys Ala Met Arg Asn Tyr Phe
 65 70 75 80
 Lys Gln Ala Lys Phe Pro Tyr Gly Ile Lys Leu Pro Thr Trp Val Gly
 85 90 95
 Gly Tyr Thr Pro Trp Thr Val Lys Cys Arg Met Val Ser Lys Val Ser
 100 105 110
 Ala Phe Val Gly Arg Thr Ile Pro Leu Ile Gly Ile Val Ile Leu Val
 115 120 125
 Ala Asp Val Ser Leu Ile Thr Tyr Ala Ala Ile Arg Asp Tyr Asn Arg
 130 135 140
 Ile Ala Arg Gly Ser Asp Lys Leu Trp
 145 150

<210> 11142
 <211> 106
 <212> PRT
 <213> Enterobacter cloacae

<400> 11142
 Ser Gly Cys Arg Ala Gly Asp Gly Ser Pro Arg Ser Thr Pro Asp Arg
 1 5 10 15
 Ser Val Ile Met Lys Ala Trp Ile Ile Ser Leu Val Cys Gly Ala Ala
 20 25 30

Ala Gly Val Leu Tyr Ala Leu Leu Asp Val His Ser Pro Ala Pro Pro
 35 40 45
 Val Val Ala Leu Leu Gly Leu Phe Gly Met Leu Val Gly Glu Gln Leu
 50 55 60
 Ile Pro Ile Gly Arg Arg Leu Val Ser Arg Glu Pro Leu Thr Leu Ala
 65 70 75 80
 Trp Phe Arg His Glu Cys Val Pro Lys Ile Ser Gly Thr Ala Pro Pro
 85 90 95
 Ala Pro Ala Lys Glu Ser Arg Asp Ala
 100 105

<210> 11143

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 11143

Cys Phe Lys Met Leu Ile Glu Arg Leu Ser Leu Asn Leu Cys Ala Thr
 1 5 10 15
 Val Asn Phe Val Gln Gln Ala Asn Asn Arg Asn Arg Arg Ile Ile Met
 20 25 30
 Val Asp Lys Ser Ala Ile Lys Asp His Thr Gln Val Val Ala Ser Cys
 35 40 45
 Gly Thr His Val Gly Val Val Asp His Leu Asp Gly Glu Arg Ile Lys
 50 55 60
 Leu Ala Lys Ser Asp Pro Glu Ser Gly Gly Lys His His Phe Ile Pro
 65 70 75 80
 Leu Gly Trp Val Asp Lys Val Glu Asp Asn Lys Val Val Leu Thr Lys
 85 90 95
 Asn His Lys Glu Val Phe Ala Glu Trp Gln Glu Ala
 100 105

<210> 11144

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 11144

Phe Ser Leu Phe His Leu Gln Glu Ile Ile Asp Pro Ser Met Met Lys
 1 5 10 15
 Tyr Ile Arg Asp Ser Leu Ala Leu Ser Ala Leu Val Lys Ser Lys Met
 20 25 30
 Ala Thr Asp Asp Leu Asn Gln Leu Glu Thr Leu Lys Glu Gln Leu Lys
 35 40 45
 Asp Arg Phe Gly Val Pro Val Gly Val His Met Thr Gly Ile Pro Leu
 50 55 60
 Ala Val Ser Thr Leu Leu Ala Ile Phe Cys Tyr Ala Met Leu Gln Val
 65 70 75 80
 Ser Leu Trp Leu Leu Leu Phe Arg Trp Leu Gly Leu Pro Glu Phe Lys
 85 90 95
 Val Met Met Gly Val Phe Ile Ala Ala Ile Val Tyr Cys Leu Val Val
 100 105 110
 Met Ser Thr Met Phe Leu Thr Thr Arg Gly Ser Leu Pro Gly Tyr Lys
 115 120 125
 Leu His Ile Phe Val Ile Thr Leu Thr Gly Ile Met Ser Ile Ile Tyr
 130 135 140
 Phe Ile Trp Thr Gly Ile Ser Leu Leu Phe Gly Pro Val Glu Asn Tyr
 145 150 155 160
 Thr Pro Gln Ile Thr Ser Leu Leu Gly Leu Gly Phe Phe Phe Leu Asn
 165 170 175
 Ile Met Trp Met Asn Ser Ser Ile Phe Tyr Arg Ser Ile Ala Leu Thr

180 185 190
 Leu His Asn Arg Val Trp Arg Lys Gln Leu Lys Ile Glu Ala Arg Pro
 195 200 205
 Met Ser His Leu Lys Arg
 210 215

<210> 11145
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 11145
 Gln Gln Gly Val Leu Thr Phe Asp Ala Gly Arg Ile Val Ala Ala Asn
 1 5 10 15
 Leu Ile Ala Gly Lys Glu Thr Thr Val Leu Ile Phe Val Phe Lys Ile
 20 25 30
 Asn Ile Lys Ser Lys Val Leu Arg Phe Ser Asp Phe Leu Tyr Ile Asp
 35 40 45
 Lys Ile Asp His Arg Thr Ile Tyr Cys Asp Ile Ser
 50 55 60

<210> 11146
 <211> 353
 <212> PRT
 <213> Enterobacter cloacae

<400> 11146
 Thr Leu Phe Gly Thr Phe Leu Ile Leu Ser Val Asn Arg Thr Phe Thr
 1 5 10 15
 Leu Val Leu Leu Thr Ile Asn Ile Ser His Gly Arg Arg Asp Glu Val
 20 25 30
 Thr Phe Thr Gly Gln Phe Ser Lys Asp Leu Pro Asp Tyr Ala Leu Ala
 35 40 45
 Arg Ser Leu Gly Leu Ala Ser Gly Gly Asp Ile Asn Phe Thr Ala Leu
 50 55 60
 Ala Gly Gln Leu Asp Cys Ser Arg Asn Phe Ser Gln Ala Gly Ile Ile
 65 70 75 80
 Tyr Ser Asp Gly Thr Arg Gln Trp Leu Val Arg Pro Ser Arg Arg Ile
 85 90 95
 Ala Thr Pro Asn Glu Ser Ser Val Ser His Val Val Ile Thr Lys Val
 100 105 110
 Asn Ala Ala Leu Val Asn Pro Val Gln Ala Thr Thr Ala Thr Ile Asn
 115 120 125
 Ser Pro Ser Leu Ala Thr Glu Ile Gly Ser Thr Ala Ile Ser Cys Gly
 130 135 140
 Ala Ala Ile Leu Thr Val Val Leu Ala Ala Gly Ala Gly Met Ala Ile
 145 150 155 160
 Pro Leu Thr Ala Gly Ser Ser Gly Ala Ile Ala Ala Val Ile Leu Ala
 165 170 175
 Gly Gly Val Ala Thr Gly Ile Gln Cys Ala Asn Gly Leu Gly Arg Leu
 180 185 190
 Ser Leu Ile Ala Met Asn His Asp Asp Tyr Val Ala Trp Met Asp Ser
 195 200 205
 Gln Glu Trp Tyr Thr Ala Thr Asn Thr Ala Leu Asp Ala Ile Ser Leu
 210 215 220
 Ala Gly Ala Ala Ala Gly Leu Lys Ser Ala Ala Leu Thr Tyr Arg Leu
 225 230 235 240
 Leu Asn Arg Ser Ser Ser Glu Ser Leu Leu Ser Leu Leu Gln Lys Met
 245 250 255
 Ser Arg Ala Asp Arg Thr Arg Leu Thr Glu Glu Ile Ile Arg Ile Arg
 260 265 270

Asn Pro Gly Ile Ser Asn Ser Gly Val Lys Ala Ala Met Lys Ala Gly
 275 280 285
 Val Tyr Pro Lys Arg Tyr Pro Ser Glu Ala Leu Gln Leu Leu Gln
 290 295 300
 Arg Glu Leu Leu Asn Thr Ile Ser Asn Ser Ser Ala Phe Val Gly Ser
 305 310 315 320
 Ala Ile Ser Gly Asn Ile Arg Asn Pro Gln Asn Val Ala Gln Thr Gly
 325 330 335
 Lys Tyr Ile Phe Gly Leu Ile Gln Ser Phe Ser Phe Thr Gly Asn Tyr
 340 345 350

<210> 11147

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 11147

Leu Tyr Leu Lys Thr Met Lys Asn Phe Asp Asn Glu Met Arg Ile Phe
 1 5 10 15
 Ser Leu Ile Phe Ser Val Phe Ile Ile Glu Leu Val Ser Phe Tyr Phe
 20 25 30
 Asn Ile Ser Gly Gly Pro Thr Ala Val Met Ser Ala Ile Val Val Ser
 35 40 45
 Gln Ser Phe Val Gly Ala Gln Tyr Leu Lys Ala Arg Asn Arg Thr Ile
 50 55 60
 Gly Ser Leu His Gln Arg Pro Glu Gly Gln Ile
 65 70 75

<210> 11148

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 11148

Pro Leu Arg Ile His Pro Lys Arg Ser Arg Ala Phe Ser Val Lys Leu
 1 5 10 15
 Ile Tyr Arg Arg Trp Gly Ile Ser Pro Arg Pro Glu Asn Lys Arg Asp
 20 25 30
 Asn Tyr Asn Ala Ile Asp Tyr Pro Gly Gln Cys Ile Ser Phe Lys Gln
 35 40 45
 Phe Cys Leu Thr Arg Gly Met Thr Arg Tyr Asn Arg His
 50 55 60

<210> 11149

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 11149

Leu His Pro Arg Val Asp Glu Ile Asp Asp Val Gly Ser Gly Lys Gln
 1 5 10 15
 Val Ile Asp Glu Asn Ala Trp Asp Ser Ser Gly His Met Pro Gln Lys
 20 25 30
 Phe Lys Arg Leu Ile Asn Glu Asn Lys Pro Arg Ile Pro Ser Gly Ser
 35 40 45
 Thr Ala Leu Arg Leu Gln Leu Cys Leu Ser Ile Glu Gly Cys Gly Pro
 50 55 60
 Gln Gln Ile Ser Thr Asp Glu Tyr Gly Val Arg Phe Arg Glu Pro Val
 65 70 75 80

Ser Ser Arg Asp Val Ser Gln Arg Lys Leu
85 90

<210> 11150

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 11150

Met Lys Lys Ile Ile Val Leu Ser Leu Leu Gly Val Val Val Ala Val
1 5 10 15
Gly Ala Ala Ala Ser Ile Tyr Ser Asn Glu Glu Pro Glu Tyr Ile Gln
20 25 30
Ser Ala Lys Ser Arg Val Gly Ser Tyr Leu Thr Ser Asp Tyr Gly Arg
35 40 45
Val Glu Cys Asn Ser Thr Gln Val Ser Glu Asp Arg Trp Glu Leu Gly
50 55 60
Cys Thr Asn Lys Ala Arg Gly Lys Thr Phe Gln Phe Ala Val Tyr Pro
65 70 75 80
Pro Glu Gln Ala Pro Tyr Gly Val Ser Arg Ala Phe Tyr Leu Glu Ala
85 90 95
Ile Asn Asp Asp Ala Arg Gln Ser Ala Asp Gln Gly Leu Met Arg Tyr
100 105 110
Leu Gln Ile Asn Thr Lys Ala Gly
115 120

<210> 11151

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 11151

Pro Ile Phe Ser Thr Leu Ile Ser Tyr Thr Arg Val Arg Tyr Met Val
1 5 10 15
Ile Lys Gly Ser Val Ala Pro Arg Pro Ile Val Asn Asn Asn Asp Asp
20 25 30
Ala Ser Ser Ala Ala Val Glu Arg Leu Ile Asp Gly Phe Ile Phe Leu
35 40 45
Pro Asp Lys Cys Leu Cys Phe Phe Val Val Leu Leu Gln Asp Tyr His
50 55 60
Gly Ile Gly Ser Leu Tyr Ser Thr Gln Phe Ile Arg Lys Cys Phe Ser
65 70 75 80
Ser Val Pro Glu Leu Met Ile Phe Ser Arg Gly Tyr Phe Phe Cys Tyr
85 90 95
Leu Glu Val Phe Thr Lys Phe
100

<210> 11152

<211> 220

<212> PRT

<213> Enterobacter cloacae

<400> 11152

Lys Gly Glu Gly Ile His Tyr Arg Tyr Tyr Pro Val Thr Gly Gly Phe
1 5 10 15
Leu Met Lys Ile Leu His Leu Leu Thr Gly His Val Ser Tyr Glu Leu
20 25 30
Leu Gln His Gly Lys Arg Ile Glu Asp Ala Ile Gly Arg His Asp Asn
35 40 45
Asp Leu Leu Asn His Ser Thr Pro Glu Leu Glu Arg Tyr Phe Ser Arg
50 55 60

Pro Leu Ser Glu Leu Pro Arg Lys Asn Ala Tyr Pro Val Ala Ile Leu
65 70 75 80
Leu Pro Leu Phe Leu Val Ile Phe Ala Phe Asn Leu Leu Pro Phe Leu
85 90 95
Gln Thr Ile Ser Ser Met Ser Pro Thr Leu His Thr Leu Ser Phe Phe
100 105 110
Val Pro Ser Leu Ala Ile Leu Ile Phe Leu Met Leu Ala Ser Ala Phe
115 120 125
Leu Ala Arg Gly Tyr Thr Ser Gly Leu Ser Gly Phe Leu Ala Leu Phe
130 135 140
Ile Ile Leu Leu Thr Leu Thr Val Leu Gln Trp Leu His Tyr Leu Thr
145 150 155 160
Ile Ser Asp Gly Ser Ser Trp Gln Leu Ile Ile Ala Thr Ile Ala Leu
165 170 175
Val Ile Ser Arg Met Val Leu Asn Ser Arg Gly Phe Val Leu Phe Thr
180 185 190
Leu Tyr Cys Arg Ser Lys Arg Leu Ala Thr Leu Ala Arg Ile Met Arg
195 200 205
Leu Lys Ser Gly Lys Asp Asn Val Arg Asn Thr
210 215 220

<210> 11153
<211> 78
<212> PRT
<213> Enterobacter cloacae

<400> 11153
His Asp Tyr Phe Phe His Leu Phe Asp Pro Ile Leu Ser Gln Lys Asn
1 5 10 15
Leu Ile Val Asn Asp Phe Pro Ile Asn Leu Val Ala Leu Cys Ile Pro
20 25 30
Glu Met Gly Val Tyr Asn Val Asp Ile Ala Phe Lys Asn Ser Leu Lys
35 40 45
Arg Val Leu Leu Arg Pro Gln Phe Leu Thr Leu Tyr Phe Leu Lys Phe
50 55 60
Lys Glu Ser Asn Asn Tyr Ser Met Lys Leu Ser Leu Arg
65 70 75

<210> 11154
<211> 77
<212> PRT
<213> Enterobacter cloacae

<400> 11154
Lys Val Lys Ile Glu Cys Arg Val Ala Leu Arg Leu Pro Asp Leu Glu
1 5 10 15
Asn Pro Asn Pro Arg Pro Gly Lys Ala Lys Pro Ser Pro Gly Lys Thr
20 25 30
Asn Thr Leu Val Val Gln His Leu Leu His His Leu Leu Leu Val His
35 40 45
Leu Ile Arg Val Val Gly Arg Pro Val Ile His Leu Phe Gln Gln Arg
50 55 60
Leu Val Gly Gly Val Ala His Lys Asp Met Glu Val
65 70 75

<210> 11155
<211> 63
<212> PRT
<213> Enterobacter cloacae

<400> 11155

Pro Val Lys Glu Val Lys Val Pro Pro Gly Ala Ala Glu Phe Thr Val
 1 5 10 15
 Arg Tyr His Met Gln Thr Ala Gly Ala Leu Leu Phe Asp Asn Met Ala
 20 25 30
 Asn Gly Leu Val Leu Asn Arg Ala Lys Leu Thr Gly Ile Asp Leu Thr
 35 40 45
 Ala Gly Lys Leu Gln Thr Gly Leu Phe Asn Arg Val Arg Ala
 50 55 60

<210> 11156

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 11156

Lys Thr Ala Asp Tyr Ile Gly Ala Val Arg Gly Val Val Ser Leu His
 1 5 10 15
 Gly Asn Leu Leu Cys Leu Ser Ala Leu Ile Ala His Ser Asp Asn Ser
 20 25 30
 Phe Leu Glu His Leu Asp Phe Trp Met Ser Lys Arg Pro Lys Lys Met
 35 40 45
 Ser Tyr Arg Leu Ala Ala Asp Lys Arg Glu Asn Phe Ile Cys Val Glu
 50 55 60
 Ile Asn Ser Cys Ser Gln Gly Gly Arg
 65 70

<210> 11157

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 11157

Met Gln Arg Ala Gly Gln Met Pro Pro Gly Lys Met Phe Arg Leu Pro
 1 5 10 15
 Asp Asn Val Gln Gln Asn Lys Val Leu Leu Thr Ala Gly Tyr Arg Val
 20 25 30
 Met Asp Ile Gly Ala Val Arg Leu Asp Ala Gln Thr Thr Gln Lys Met
 35 40 45
 Pro His Gly Phe Leu Arg Leu Ser Ser Arg Lys Phe Ser Asn Ile Ala
 50 55 60
 His Glu Ser Ser Ser Phe Val Val Phe Val Leu Thr Leu Leu Tyr Pro
 65 70 75 80
 Leu Ile Gln Asn Met Asn Ala Ser Ala Tyr Ala Arg Lys Gln Gln Lys
 85 90 95
 Asp Asp Lys Leu Lys Thr Ser Leu Ala Ala Arg Gly Arg Ala Gly Ile
 100 105 110

<210> 11158

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 11158

His Gln Lys Arg Ile Asp Ala Glu Asn Thr Pro Ser His Asp Gln Tyr
 1 5 10 15
 Phe Thr Val Val Met Leu Phe Ile Ile Gly Thr Ser Asp Phe Asn Tyr
 20 25 30
 Leu Arg Leu Arg Gly Leu Pro Ser Phe Tyr Ile Ala Asp Val Tyr Leu
 35 40 45

Leu Arg Ser Thr Lys Ala His Ser Leu Tyr Ser Asp Tyr Leu His His
 50 55 60
 Tyr Ala Lys Phe Lys Ile Val Phe Trp Val Arg Leu Pro Arg Thr
 65 70 75 80
 His Gln

<210> 11159
 <211> 71
 <212> PRT
 <213> Enterobacter cloacae

<400> 11159
 Thr Thr Ile Val Ser Pro Ser Ala Arg Val Ser Ser Ala Ala Cys Ala
 1 5 10 15
 Leu Trp Tyr Ser Val Glu Lys Met Ala Ser Val Ser Val Ala Gly Ala
 20 25 30
 Asn Leu Ile Met Leu Phe Ile Asn Ser Phe Pro Phe Val Lys Asn Ala
 35 40 45
 Met Thr Asn Ile Asn Asp Ser His Ser His Tyr Asn Lys Val Thr Ala
 50 55 60
 Ile Ser Ile Lys Ser Ser
 65 70

<210> 11160
 <211> 84
 <212> PRT
 <213> Enterobacter cloacae

<400> 11160
 Ser Leu Ala Gly Gly Leu Ser Trp Leu Cys Pro Val Leu Asp Gly Gly
 1 5 10 15
 Cys Ser Ser Cys Leu Glu Leu Leu Gly Leu Ile Met Val Met Thr Val
 20 25 30
 Arg Thr Glu Ala Arg Lys Glu Met Cys Gln Leu Arg Asp Asn Ala His
 35 40 45
 Lys Ala Arg Lys Ala Pro Ala Thr Ser Val Pro Ala Ser Trp Lys Leu
 50 55 60
 Thr Pro Gln Gln Gln Ala Phe Ile Asp Val Phe Ala Glu Asp Glu Pro
 65 70 75 80
 Lys Lys Gln

<210> 11161
 <211> 99
 <212> PRT
 <213> Enterobacter cloacae

<400> 11161
 Leu Leu Ile His Asp Ile Ala Ser Val Ile Ile Val Val Thr Lys Glu
 1 5 10 15
 Ala Tyr Pro Gln Pro Ile Arg Leu Thr Thr Ser Lys Thr Arg Phe Gly
 20 25 30
 His Pro Leu Phe Asn Thr Leu Phe Arg Gln Thr Leu Lys Ile Ile Pro
 35 40 45
 Asn Thr Glu Ala Pro Val Ala Thr Ile Tyr Phe Cys Val Val Ser Thr
 50 55 60
 Leu Val Ile Ile His Ala Thr Phe Thr Leu Gly Leu Leu Ala Lys Arg
 65 70 75 80
 Thr Pro Asn Ile Gln Ile Tyr Phe Ser Leu Thr Ser Gly Phe Thr Val
 85 90 95

Arg Phe

<210> 11162

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 11162

Val	Gln	Leu	Phe	Pro	Arg	Ser	Asp	Ser	Met	Lys	Ser	Leu	Pro	Phe	Phe
1				5					10					15	
Phe	Ala	Val	Leu	Thr	Leu	Ser	Thr	Leu	Thr	Ala	Cys	Ser	Ser	Pro	Gln
		20						25					30		
Pro	Asp	Asn	Val	Glu	Lys	Ile	Asn	His	Leu	Gln	Ile	Pro	Leu	Val	Leu
		35					40					45			
Pro	Gly	Glu	Lys	Ser	Pro	Gln	Val	Gln	Ile	Ser	His	Ile	Ala	Ser	Leu
	50					55				60					
Tyr	Gln	Glu	Asn	Lys	Gln	Gln	Ile	Glu	Thr	Leu	Thr	Arg	Ser	Val	Lys
65					70					75					80
Ser	Gln	Tyr	Leu	Gln	Asp	Thr	Thr	Ala	Lys	Glu	Ile	Phe	Val	Ala	Asp
			85						90					95	
Ser	Ala	Val	Gln	Arg	Val	Tyr	Ala	Ser	Leu	Thr	Lys	Leu	Glu	Gln	Leu
			100					105					110		
Asp	Met	Val	Asn	Gln	Gln	Tyr	Leu	Lys	Asp	Asn	Asn	Val	Thr	Gly	Leu
		115					120					125			
Gln	Asn	Ile	His	Ile	Val	Leu	Glu	Pro	Leu	Phe	Thr	Ser			
	130					135					140				

<210> 11163

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 11163

Asn	Asp	Gln	Thr	His	Phe	Gly	Lys	Glu	Ser	Leu	Met	Asp	Ile	Ala	Leu
1				5					10					15	
Leu	Asn	Arg	Gly	Trp	Asn	Arg	Thr	Trp	Ser	Asp	Thr	Met	Val	Asn	Leu
		20						25					30		
Glu	Ala	Arg	Lys	Leu	Val	Glu	Thr	Ala	Asn	Arg	Leu	Ser	Ala	Phe	Tyr
		35					40					45			
Leu	Gln	Asp	Gly	Leu	Thr	Arg	Ile	Lys	Phe	Val	Glu	Glu	Ile	Lys	Gln
	50					55					60				
Val	Ala	Asp	Lys	Glu	Phe	Glu	Thr	Ala	Arg	Arg	Ala	Lys	Thr	Asp	Glu
65					70				75						80
Glu	Cys	Ile	Ala	Cys	Ile	Lys	Asn	Leu	Arg	Ala	Glu	Thr	Asp	Asn	Leu
			85					90					95		
His	Glu	Gln	Glu	Arg	Leu	Leu	Arg	Thr	Arg	Ala	Ala	Gln	Leu	Tyr	Ala
		100						105					110		
Lys	Val	Glu	Phe	Val	Lys	Glu	Asn	Asn	Lys	Ile	Val	Gly	Tyr	Val	Ile
		115					120					125			
Ser	Ala	Val	Asn	Val	Val	Leu	Ser	Gly	Val	Val	Leu	Phe	Gly	Gly	Phe
	130					135					140				
Met	Met	Leu	Ser	Thr	Met	Gly	Pro	Ile	Gly	Met	Leu	Ala	Gly	Ala	Val
145					150					155					160
Leu	Ile	Ala	Asp	Gly	Met	Asn	Gly	Leu	Thr	Lys	Glu	Val	Leu	Asn	Phe
			165					170						175	
Asp	Gln	Pro	Glu	Gly	His	Lys	Pro	Ser	Gln	Gly	Ile	Ile	Ala	Asp	Ser
		180						185					190		
Ala	Met	His	Thr	Ala	Gln	Phe	Met	Gly	Phe	Asn	Pro	Asn	Thr	Gly	Leu
		195					200					205			
Ala	Leu	Tyr	Asn	Gly	Val	Thr	Leu	Gly	Ala	Ser	Val	Tyr	Ser	Ile	Val

210		215		220
Gly Leu Ala Arg Lys Thr Gly Ala Trp Arg Leu Phe Arg Trp Leu Pro				
225		230		235
His Asp Tyr Tyr Arg Lys Val Ser Thr Met Ser Thr Pro Lys Leu Thr				
		245		250
Met Lys Ile Val Gly Tyr Gly Val Lys Ala Lys Val Ile Phe Asp Leu				
		260		265
Leu Thr Thr Glu Asn Gly Thr Ser				270
		275		280

<210> 11164

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 11164

Leu Leu Ala Gln Ser Ala Ile Gly Lys Thr Leu Leu Gly Asp Lys Gly				
1	5	10	15	
Arg Asp Asp Met Lys Val Thr Asp Glu Ala Leu Leu Arg Ser Gly Phe				
	20	25	30	
Thr Gln Pro Glu Leu Gln Lys Ile Lys Ser Asn Ile Glu Lys Tyr Gly				
	35	40	45	
Gly Thr Leu Gly Glu Ala Ile Asn Asp Leu Ala Arg Arg Phe Val Thr				
	50	55	60	
Leu Ala Gly Val Val Ala Val Cys Ala Leu Ile Leu Leu Leu Ile				
	65	70	75	80
Val Phe Ser Ser Pro Asp Arg Ala Val Ala Trp Gly Leu Ala Met Ile				
	85	90	95	
Phe Gly Val Ala Ile Met Ser Phe Ala Gln Pro Pro Val Ile Ser Tyr				
	100	105	110	
Lys Ser Trp Arg Tyr Arg Lys Thr Ile Lys Asp				
	115	120		

<210> 11165

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 11165

Val Ala His Phe Leu Tyr Pro Gly Tyr Pro Glu Ile Asn Pro Asn Asn				
1	5	10	15	
Ser Arg Val Ser Met Ala Thr Gly Lys Arg Lys Asn Gln Lys Glu Ser				
	20	25	30	
Pro Glu Glu Glu Leu Asp Arg Leu Leu Asp Glu Leu Glu Leu Thr Glu				
	35	40	45	
Glu Gln Arg Glu Phe Ile Glu Ser Met Arg Glu Asp Lys Gly Asp Pro				
	50	55	60	
Ser Ser Glu				
65				

<210> 11166

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 11166

Ser Val Lys Glu Thr Met Val Ser Phe Gly Asp Ala Ala Pro Val Arg				
1	5	10	15	
Gly Leu Leu Gly Ser Leu Asn Asn Ser Phe Ala Ser Trp Ser Leu Glu				
	20	25	30	
Ala Ser Ser Asp Gly Ala Ala Lys Pro Asn Val Asp Asn Asp Ser Arg				

35 40 45
 Ser Lys Ala Ile Lys Ala Leu Met Leu Phe Ser Phe Cys Ile Gly Gln
 50 55 60
 Gly Ala Gln His Arg Phe Ala Ala
 65 70

<210> 11167
 <211> 190
 <212> PRT
 <213> Enterobacter cloacae

<400> 11167
 Val Leu Lys Ala Phe Ser Gln Arg Asn Gln Lys Phe Arg Gln Leu Ser
 1 5 10 15
 Glu Thr Val Thr Thr Ala Met Glu Pro Lys Asn Glu Lys Val Pro Gly
 20 25 30
 Ile Lys Glu Ser Tyr Arg Leu Leu Thr Phe Glu Tyr Ala Phe Arg Gln
 35 40 45
 Val Gly Phe Ile Val Leu Leu Ala Ile Ile Val Ala Ala Ile Ala Gly
 50 55 60
 Leu Phe Ser Ser Gly Val Val Ser Asp Val Glu Lys Thr Asn Asp Ala
 65 70 75 80
 Lys Ser Leu Ala Leu Ser Tyr Glu Arg Phe Gly Arg Arg Gln Thr Glu
 85 90 95
 Ser Arg Met Ala Leu Thr Phe Pro Val Thr Ser Glu Gly Lys Tyr Thr
 100 105 110
 Leu Ser Leu Thr Ser Glu Ser Ser Asp Ala Tyr Glu Pro Gly Ser Val
 115 120 125
 Trp Pro Gln Pro Asp Ser Met Tyr Ser Arg Gly Asn Thr Leu Phe Leu
 130 135 140
 Val Tyr Asp Arg Leu Gln Gln Thr Asp Lys Phe Thr Val Leu Leu Phe
 145 150 155 160
 Ile Thr Pro Ser Lys Ala Gly Lys Trp Thr Asn Ser Ile Arg Val Asn
 165 170 175
 Asn Glu Pro Asp Ile Arg Phe Trp Gln Phe Ile Tyr Pro
 180 185 190

<210> 11168
 <211> 122
 <212> PRT
 <213> Enterobacter cloacae

<400> 11168
 Lys Leu Pro Pro Glu Thr Pro Thr Ser Gly Gly Arg Leu Asn Arg Phe
 1 5 10 15
 Gly Val Pro Thr Ile Trp Lys Ile Gly Ala Ser Lys Glu Ala Pro Val
 20 25 30
 Gln Ser Thr Ile Ile Glu Asp Thr Asp Tyr Thr Ala Ala Lys Lys Arg
 35 40 45
 Val Asn Glu Thr Asn Asp Val Ala Leu Ala Thr Ser Phe His Met Cys
 50 55 60
 Val Ile Arg Thr Pro Ile Pro Thr Pro Asp Phe Ala Gly Ala Pro Pro
 65 70 75 80
 Phe Tyr Tyr Cys Glu Phe Ile Gln Gln Leu Thr Ser Lys Glu Ser Gly
 85 90 95
 Lys Arg Leu Ala Lys Phe Leu Cys Gly Leu Leu Pro Ser Pro Gln Pro
 100 105 110
 Ser Pro Thr Gly Arg Gly Arg Lys His
 115 120

<210> 11169

<211> 211
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (27)

<400> 11169

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Cys Arg Pro Ser Ala Leu Arg Leu Ser Ala Ala Ile Gln Pro Gly Asn
1      5      10      15
Arg Ser Gly Phe Arg Thr Ala Ser Pro Ala Xaa Lys Asn Val Phe Gly
20      25      30
Lys Thr Ala Leu Trp Leu Val Gly Leu Cys Ala Met Leu Val Val Gly
35      40      45
Leu Tyr Met His Val Tyr Trp Asn Leu Arg His Pro Ala Pro Glu Pro
50      55      60
Ile Asn Ala Ser Val Ala Lys Pro Glu Thr Gln Leu Ser Glu Met His
65      70      75      80
Tyr Val Tyr Val Ser Lys Pro Phe Pro His Pro Gln Pro Lys Val Ala
85      90      95
Pro Val His Val Asp Val Pro Pro Met Gln Asp Leu Pro Ile Ser Ser
100      105      110
Asp Asp Ala Asp Trp Gln Gln Ala Pro Glu Gly Ala Val Pro His Asp
115      120      125
Thr Ser Arg Asp Thr Leu Pro Gly Thr Glu Ala His Glu His Asp Ile
130      135      140
Ala Pro Ala Ser Thr Ser Ser Glu Glu Ser Ser Leu Thr Glu Leu Phe
145      150      155      160
Lys Gln Ala Leu Lys Glu Gln Glu Gln Asp Tyr Ser Gln Gly Lys Ile
165      170      175
Pro Ala Pro Pro Val Asp Glu Thr Gln Asp Asn Ser Gln Ala Ser Val
180      185      190
Lys Asn Ser Gly Asn Ser Arg Ser Pro Leu Ser Glu Lys Gly Glu Arg
195      200      205
Arg Glu
210

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<210> 11170
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 11170

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Arg Pro Asp Val Tyr Pro Val Val Ser Pro Leu Arg Met Arg Phe Pro
1      5      10      15
Phe Gly Cys Thr Val Thr Leu Gly Gln Tyr Ala Glu Thr Val Leu Leu
20      25      30
Arg Phe Lys Arg Ala Ile Leu Tyr Leu Ile Glu Glu Phe Arg His Tyr
35      40      45
Leu Ala Gly Ser Lys Leu Gly Ser Asp Thr Pro Glu Asp
50      55      60

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<210> 11171
 <211> 159
 <212> PRT
 <213> Enterobacter cloacae

<400> 11171

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Phe Ser Ala Phe Asn Met Glu Ile Met Asn Met Glu Asn Gln Ser Ile
1      5      10      15

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Ser Gln Leu Tyr Ser Glu Leu Ser Leu Asn Pro Asp Leu Pro Thr Leu
 20 25 30
 Ala Glu Arg Cys Lys Leu Leu Thr Glu Ile Leu Leu Asp Cys Lys Ser
 35 40 45
 Leu Pro Gln Thr Gln Pro Val Cys Arg Cys Phe Gly Ala Tyr Met Glu
 50 55 60
 Glu Val Lys Ser Gly Leu Thr Glu Ser Met Arg Asp Phe Gln Val Val
 65 70 75 80
 Glu Phe Glu Asp Asp Ala Glu Gln Pro Arg Gln Lys Glu Trp Leu Leu
 85 90 95
 Glu Asp Thr Glu Thr Lys Cys Asp Tyr Cys Arg Ala Leu Asn His Val
 100 105 110
 Leu Leu Val Ser His Val Asp Arg Asp Met Leu Pro His Leu Thr Gly
 115 120 125
 Leu Leu His Asp Ile Thr His Ala Met Ala Glu Asp Leu Ile Val Pro
 130 135 140
 Met Asn Pro Cys Met Thr Ile His Leu Pro Thr Gln Pro His
 145 150 155

<210> 11172
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 11172
 Glu Arg Cys Ser Phe Phe Arg Leu Val Ser Ile Leu Asn Leu Tyr Ala
 1 5 10 15
 Ile Glu Met Ile Lys Tyr Tyr Phe Asn His Lys Lys Lys Arg Ile Thr
 20 25 30
 His Gln Val Thr Arg Ser Met Asn Thr Val Leu Cys Ile Cys Val Val
 35 40 45
 Asn Ser Cys Ala Gln Thr Leu Thr Pro Tyr Ala Arg
 50 55 60

<210> 11173
 <211> 64
 <212> PRT
 <213> Enterobacter cloacae

<400> 11173
 Ser His Leu Leu Lys Leu Tyr Phe Arg Tyr Met Phe Lys Val Met Pro
 1 5 10 15
 Val Pro Gln Gln Arg Lys Val Leu Ser Tyr Thr Lys Trp Arg Val Ile
 20 25 30
 Asp Leu Ala Gln Phe Trp Arg Gln Val His Tyr Arg Gln Ser Ser Ile
 35 40 45
 Arg Leu Arg Arg Thr Pro Ser Glu Trp Val Pro Ala Gly Ser Glu
 50 55 60

<210> 11174
 <211> 775
 <212> PRT
 <213> Enterobacter cloacae

<400> 11174
 Leu Met Gln Asn Ala Ser Ala Leu Pro His Arg Asn Ala Leu Arg Pro
 1 5 10 15
 Ala Leu Leu Trp Ala Ala Val Cys Leu Ile Leu Leu Gly Val Leu Leu
 20 25 30
 Ser Leu Leu Pro Gly Ala Arg Leu Asn Ser Ser Val Leu Ala Met Leu
 35 40 45

Pro	Lys	Gln	Thr	Leu	Gly	Ala	Ile	Pro	Pro	Ala	Leu	Asn	Asp	Gly	Phe
50						55					60				
Met	Gln	Arg	Leu	Asp	Arg	Gln	Leu	Ile	Trp	Leu	Val	Ser	Pro	Gly	Lys
65					70					75					80
Gln	Pro	Asp	Pro	Arg	Val	Ala	Gln	Gln	Trp	Leu	Thr	Leu	Leu	Gln	Arg
				85					90					95	
Ser	Gln	Ala	Leu	Ser	Val	Val	Lys	Gly	Pro	Leu	Asp	Ala	Ala	Gly	Gln
			100					105						110	
Gln	Ala	Trp	Gly	Asp	Phe	Phe	Trp	Gln	His	Arg	Asn	Gly	Leu	Val	Asp
		115					120					125			
Pro	Ala	Thr	Arg	Ala	Arg	Leu	Gln	Asn	Gly	Gly	Glu	Ala	Gln	Ala	Gln
	130					135					140				
Trp	Ile	Leu	Ser	Gln	Leu	Tyr	Ser	Ala	Phe	Ser	Gly	Val	Ser	Gly	Lys
145					150					155					160
Glu	Leu	Gln	Asn	Asp	Pro	Leu	Met	Leu	Met	Arg	Gly	Ala	Gln	Leu	Ala
			165					170						175	
Leu	Ala	Lys	Asn	Ser	Gln	Lys	Met	Gln	Leu	Met	Asp	Asp	Trp	Leu	Val
			180					185					190		
Thr	Lys	Asp	Ala	Ala	Gly	Asn	Tyr	Trp	Tyr	Leu	Leu	His	Gly	Glu	Leu
		195				200						205			
Ala	Gly	Ser	Ser	Phe	Asp	Met	Gln	Gln	Thr	His	Gln	Leu	Val	Thr	Thr
	210					215					220				
Leu	Asn	Ala	Leu	Gln	Gln	Thr	Leu	Lys	Ser	Gln	Tyr	Pro	Gln	Ala	Gln
225				230						235					240
Leu	Leu	Ser	Arg	Gly	Thr	Val	Phe	Tyr	Ser	Asp	Tyr	Ala	Ser	Gln	Gln
			245					250						255	
Ala	Lys	Asn	Asp	Ile	Ser	Thr	Leu	Gly	Val	Ala	Thr	Val	Leu	Gly	Val
			260					265					270		
Ile	Leu	Leu	Ile	Val	Ser	Val	Phe	Arg	Ser	Val	Arg	Pro	Leu	Leu	Leu
	275					280						285			
Ser	Leu	Leu	Ser	Ile	Ala	Ile	Gly	Ala	Leu	Ala	Gly	Thr	Val	Val	Thr
	290					295					300				
Leu	Leu	Leu	Phe	Gly	Glu	Leu	His	Leu	Met	Thr	Leu	Val	Met	Ser	Met
305				310						315					320
Ser	Ile	Ile	Gly	Ile	Ser	Ala	Asp	Tyr	Thr	Ile	Tyr	Tyr	Leu	Thr	Glu
			325					330						335	
Arg	Met	Val	His	Gly	Ala	Glu	His	Ser	Pro	Trp	Gln	Ser	Leu	Ala	Lys
			340					345					350		
Val	Arg	Asn	Ala	Leu	Leu	Leu	Ala	Leu	Leu	Thr	Thr	Val	Val	Ala	Tyr
		355				360						365			
Leu	Phe	Met	Met	Leu	Ala	Pro	Phe	Pro	Gly	Ile	Arg	Gln	Met	Ala	Val
	370				375						380				
Phe	Ala	Ala	Ala	Gly	Leu	Ser	Ala	Ser	Cys	Leu	Thr	Val	Met	Phe	Trp
385				390						395					400
His	Pro	Trp	Leu	Cys	Arg	Gly	Met	Pro	Val	Arg	Pro	Val	Pro	Leu	Arg
			405					410						415	
Arg	Ile	Met	Gln	Arg	Trp	Leu	Asp	Ala	Trp	Arg	Asp	Gly	Lys	Ala	Leu
			420					425					430		
Ser	Val	Gly	Leu	Pro	Val	Ala	Leu	Ala	Leu	Leu	Ser	Ala	Ile	Gly	Ile
		435				440						445			
Ala	Ser	Leu	Arg	Val	Asp	Asp	Asp	Ile	Ala	Arg	Leu	Gln	Ala	Leu	Pro
	450					455					460				
Gln	Asp	Ile	Leu	Ala	Gln	Glu	Lys	Thr	Ile	Thr	Ala	Leu	Thr	Gly	Gln
465				470						475					480
Asn	Val	Asp	Gln	Lys	Trp	Phe	Val	Val	Tyr	Gly	Ala	Ser	Ala	Gln	Gln
			485					490						495	
Thr	Leu	Glu	Arg	Leu	Glu	Ala	Phe	Thr	Pro	Ala	Leu	Ala	Gln	Ala	Gln
		500						505					510		
Lys	Ala	Gly	Glu	Leu	Thr	Arg	Trp	Arg	Thr	Leu	Pro	Leu	Asn	Ser	Leu
	515					520						525			
Ala	Arg	Gln	Asn	Ser	Asp	Leu	His	Leu	Leu	Arg	Asn	Ala	Ala	Pro	Thr

530	535	540
Val Val Lys Met Leu Gln Ser Thr Gly Leu Asn Ala Val Pro Pro Asn		
545	550	555
Leu Asn Ala Met Pro Val Ser Val Glu Ala Trp Leu Ala Ser Pro Ala		
	565	570
Ser Glu Gly Trp Arg Leu Leu Trp Leu Thr Leu Pro Asp Gly Lys Ser		575
	580	585
Gly Val Leu Val Pro Val Asp Gly Val Arg Asn Ser Ala Ala Leu Gly		590
	595	600
Glu Leu Ala Thr Arg His Pro Gly Val Val Trp Val Asp Arg Lys Ala		605
	610	615
Ser Phe Asp Ser Leu Phe Ala Leu Tyr Arg Ser Leu Leu Ser Gly Leu		620
625	630	635
Leu Gly Val Ala Leu Ala Val Ile Ala Cys Gly Ala Met Leu Arg Leu		
	645	650
Gly Trp Arg Lys Gly Leu Val Ala Leu Val Pro Ser Val Leu Ser Leu		655
	660	665
Gly Gly Gly Leu Ala Ala Leu Ala Val Thr Gly His Pro Val Asn Leu		670
	675	680
Phe Ser Leu Leu Ala Leu Val Leu Val Leu Gly Ile Gly Ile Asn Tyr		685
	690	695
Thr Leu Phe Phe Ser Asn Pro Arg Gly Thr Pro Leu Thr Ser Met Leu		700
705	710	715
Ala Ile Thr Leu Ala Met Met Thr Thr Leu Leu Thr Leu Gly Met Leu		
	725	730
Val Phe Ser Thr Thr Gln Ala Ile Ser Ser Phe Gly Ile Val Leu Val		735
	740	745
Ser Gly Ile Phe Thr Ala Phe Leu Leu Ala Pro Leu Ala Met Pro Ser		750
	755	760
Asn Lys Glu Asn Leu Pro		765
770	775	

<210> 11175

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 11175

Pro Gly His Arg Arg Arg Ser Ala Ala Phe Arg His Ser Ala Cys Tyr	
1	5
Gly Arg Phe Tyr Ala Pro Ser Leu Pro Ala Pro Gly Asn Gly Gly Pro	10
	15
	20
Glu His Gln Ala Cys Gly Leu Gly Trp Lys Thr Gly Arg Ser Phe Ser	25
	30
	35
Ser Arg Ser Gly Lys Asn Gly Cys Ser Leu Arg Pro Ala Ile Ala Asn	40
	45
	50
Ala Asn Gln Val Asn Asp Cys Val Lys Ile Ser His Cys Lys Val Ser	55
65	60
	65
Ser Lys Gln Tyr His Ala Ala Ala Leu Leu Gly Ser Leu Thr Pro Asn	70
	75
	80
	85
Ile Asn Gln Lys Gly Thr Ile	90
	95
100	

<210> 11176

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 11176

Leu Arg Ser Tyr Arg Ser Cys Phe Met Lys Ile Pro Glu Ile Gly Arg
1
5
10
15

Leu Gln Pro Asp Pro Gln His Leu Glu Ile Thr Phe Tyr Leu Asp Pro
 20 25 30
 Asp Leu Leu Trp Phe Lys Gly His Phe Ala Val Gln Pro Leu Leu Pro
 35 40 45
 Gly Val Ala Gln Leu Asp Trp Val Met His Tyr Ala Ala Ala Leu Ala
 50 55 60
 Pro Gly Tyr Arg Phe His Ser Ile Gln Asn Val Lys Phe Ala Ala Pro
 65 70 75 80
 Leu Leu Pro Glu Asn Thr Val Thr Leu Leu Leu Ala Trp Gln Pro Glu
 85 90 95
 Arg Glu Met Leu Thr Phe Ser Tyr Gln Arg His Ala Gly Asn Glu Arg
 100 105 110
 His Thr Ala Ser Ser Gly Lys Ile Arg Leu Cys Gln
 115 120 125

<210> 11177

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 11177

Ser Cys Lys Val Leu Lys Lys His Ile Gln Asn Met Met Leu Ser Val
 1 5 10 15
 Tyr His Thr Leu Phe Gln His Tyr Thr Leu Met Phe Leu Gln Glu Leu
 20 25 30
 Gln Phe Thr Gly Gly Lys Arg Cys Phe Cys Ser Tyr Leu Ala Leu Arg
 35 40 45
 Asp Ser Val Gly Gln Ile Leu Pro Pro Leu Gln Ser
 50 55 60

<210> 11178

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 11178

Met Lys Phe Thr Leu Thr Leu Ile Asp Trp Gln Ala Arg Ala Pro Gly
 1 5 10 15
 Leu Ser Asp Ala Asp Glu Trp Gln Ala Trp Ser Arg Arg Ser Asp Ala
 20 25 30
 Ile Asp Pro Ala Ala Pro Leu Ala Lys Leu Thr Asp Leu Pro Met Met
 35 40 45
 Thr Ala Arg Arg Leu Asn Ser Gly Ser Arg Leu Ala Val Asp Leu Gly
 50 55 60
 Leu Met Met Leu Arg Lys His Arg Ile Asp Ala Val Val Tyr Ser Ser
 65 70 75 80
 Arg His Gly Glu Leu Glu Arg Asn Phe Arg Ile Leu Gln Ala Leu Ala
 85 90 95
 Ala Glu Gln Pro Val Ser Pro Thr Asp Phe Ala Met Ser Val His Asn
 100 105 110
 Ser Ala Val Gly Asn Leu Thr Ile Ala Ala Arg Gln Pro Val Val Ser
 115 120 125
 Ser Ser Val Ser Ala Gly Met Asp Thr Phe Gln Gln Ser Leu Cys Asp
 130 135 140
 Val Leu Ser Leu Leu His Ala Gly Tyr Ser Arg Val Leu Leu Val Asp
 145 150 155 160
 Phe Asp Gly Leu Leu Pro Asp Phe Tyr His Ala Gly Leu Pro Pro Gln
 165 170 175
 Met Pro Val Trp Pro Tyr Ala Leu Ala Leu Val Ile Glu Ala Gly Asn
 180 185 190
 Thr Leu Ser Cys Glu Thr His Val Asn Arg Thr Pro Glu Glu Pro Ala

	195		200		205										
Leu	Pro	Gln	Ser	Leu	Gln	Phe	Leu	Arg	His	Tyr	Leu	Arg	Asp	Glu	Arg
	210				215						220				
Gln	Phe	Thr	Leu	Pro	Gly	Glu	Arg	Leu	Leu	Trp	Gln	Trp	Thr	Arg	Gln
225					230					235					240

<210> 11179
 <211> 273
 <212> PRT
 <213> Enterobacter cloacae

<400> 11179

Gln	Asn	Asn	Lys	Arg	Phe	Ile	Arg	Lys	Ser	Leu	Arg	Phe	Leu	Leu	Arg
1				5					10					15	
Cys	Leu	Lys	Ser	Pro	Arg	Arg	Ile	Leu	Pro	Leu	Arg	His	Val	Phe	Thr
			20					25					30		
Arg	Ile	Trp	Thr	Ser	Thr	Ala	Leu	Met	Pro	Ser	Ile	Trp	Trp	Cys	Thr
			35				40					45			
Cys	Lys	Arg	Lys	Arg	Ala	Ile	Lys	Ser	Ser	Leu	Lys	Pro	Ser	Lys	Arg
	50					55					60				
Cys	Ala	Arg	Cys	Arg	Thr	Ser	Trp	Thr	Leu	Trp	Asn	Ser	Phe	Ser	Ala
65					70					75					80
Thr	Arg	Asn	Val	Arg	Ser	Ile	Arg	Val	Leu	Pro	Ala	Leu	Thr	Gly	Leu
				85					90					95	
Met	Leu	Leu	Ala	Trp	Pro	Phe	Leu	Ile	Gly	Phe	Gly	Leu	Ala	Asn	Asn
			100					105					110		
Ser	Leu	His	Gly	Ile	Leu	Pro	Val	Met	Ala	Leu	Val	Leu	Leu	Met	Arg
		115					120					125			
Val	Cys	Gln	Ala	Arg	Arg	Gln	Gly	Gly	Pro	Leu	Arg	Tyr	Leu	Phe	Val
	130					135					140				
Ser	Val	Ala	Leu	Ala	Gly	Ile	Ala	Leu	Cys	Ala	Ala	Ser	Tyr	Val	Leu
145					150					155					160
His	Ala	His	Gln	Trp	Val	Leu	Leu	Tyr	Pro	Val	Val	Val	Asn	Leu	Val
			165					170					175		
Met	Leu	Val	Val	Phe	Gly	Gly	Ser	Leu	Trp	Thr	Ala	Met	Pro	Val	Val
		180						185					190		
Glu	Arg	Leu	Ala	Arg	Leu	Arg	Glu	Pro	Asp	Leu	Ser	Pro	Val	Gly	Val
		195					200					205			
Arg	Tyr	Thr	Arg	Arg	Val	Thr	Gln	Val	Trp	Cys	Gly	Phe	Phe	Ile	Ile
	210					215					220				
Asn	Gly	Ala	Ile	Ala	Leu	Phe	Thr	Val	Leu	His	Ala	Asp	Ile	Arg	Leu
225					230					235					240
Trp	Thr	Leu	Trp	Asn	Gly	Met	Ile	Ala	Tyr	Leu	Leu	Met	Gly	Thr	Leu
				245					250				255		
Met	Ala	Gly	Glu	Trp	Leu	Val	Arg	Gln	Arg	Val	Lys	Lys	Asn	Asp	Ala
		260						265					270		

<210> 11180
 <211> 253
 <212> PRT
 <213> Enterobacter cloacae

<400> 11180

Lys	Pro	Ser	Ala	His	Arg	Leu	Ser	Asn	Leu	Arg	Arg	Ala	Asn	Arg	Glu
1				5					10					15	
Thr	His	His	His	Arg	Leu	His	His	Ser	Gly	Gly	Gly	Gly	Arg	Ser	Lys
			20					25					30		

Pro Gly Asp Val Leu Cys Gln Pro Gly His Ser Val Arg Thr His Gly
 35 40 45
 Asp Arg Ala Met Lys Trp Ile Thr Leu Leu Ala Leu Leu Val Ser Pro
 50 55 60
 Leu Val Asn Ala Val Thr Leu Asp Glu Leu Gln Gln Arg Phe Ala Glu
 65 70 75 80
 Gln Pro Val Val Arg Ala His Phe Glu Gln Ile Arg Thr Ile Lys Asp
 85 90 95
 Met Pro Gln Pro Leu Arg Ser Gln Gly Glu Met Leu Ile Ala Arg Asp
 100 105 110
 Asn Gly Leu Leu Trp Asp Gln Lys Ala Pro Phe Pro Met Thr Leu Leu
 115 120 125
 Leu Asp Asp Lys Arg Met Val Gln Ile Val Asn Gly Gln Ser Pro Gln
 130 135 140
 Thr Ile Thr Ala Asp Thr Asn Pro Gln Met Phe Gln Phe Asn His Leu
 145 150 155 160
 Leu Arg Ala Leu Phe Gln Ala Asp Arg Lys Val Leu Glu Glu Asn Phe
 165 170 175
 Arg Ile Asp Phe Lys Asp Leu Gly Glu Gly Arg Trp Ser Leu Val Leu
 180 185 190
 Thr Pro Val Thr Thr Pro Leu Asp Lys Ile Phe Ser Thr Leu Asp Leu
 195 200 205
 Lys Gly Ala Ile Tyr Leu Glu Ser Ile Arg Leu Asn Asp Lys Gln Gly
 210 215 220
 Asp Thr Thr Asp Ile Ala Leu Ser Arg His Gln Leu Thr Pro Ala Arg
 225 230 235 240
 Leu Thr Asp Ala Glu Arg Gln Arg Phe Ala Ala Pro
 245 250

<210> 11181

<211> 198

<212> PRT

<213> Enterobacter cloacae

<400> 11181

Gln Arg Glu Leu Thr Met Thr Arg Phe Ile Arg Leu Ala Ala Val Met
 1 5 10 15
 Met Ala Leu Leu Leu Ala Gly Cys Ser His Thr Thr Asn Arg Asp Asp
 20 25 30
 Ala Arg Pro Gln Ala Trp Leu Gln Pro Gly Thr Arg Val Thr Leu Pro
 35 40 45
 Pro Pro Gly Ile Thr Pro Ala Ile Arg Ala Gln Gln Leu Leu Thr Gly
 50 55 60
 Ser Phe Lys Gly Gln Thr Gln Ser Leu Leu Val Met Leu Asn Ala Asp
 65 70 75 80
 Gly Asn Lys Val Thr Leu Ala Gly Leu Ser Tyr Val Gly Ile Arg Leu
 85 90 95
 Phe Leu Ala Thr Tyr Asp Asp Thr Gly Ile His Ile Glu Gln Ser Val
 100 105 110
 Val Met Pro Gln Leu Pro Pro Ala Ser Gln Val Leu Ala Asp Val Met
 115 120 125
 Leu Ser His Trp Pro Leu Ser Ala Trp Gln Pro Gln Leu Pro Lys Gly
 130 135 140
 Trp Thr Leu Asn Asp Thr Asp Thr Arg Arg Glu Leu Arg Asn Pro Asp
 145 150 155 160
 Gly Lys Leu Val Thr Glu Ile Val Tyr Leu Asn Arg Asn Gly Arg Arg
 165 170 175
 Glu Pro Ile Ser Ile Val Gln His Ala Phe His Tyr His Ile Thr Ile
 180 185 190
 Gln Tyr Leu Gly Asp
 195

<210> 11182
 <211> 224
 <212> PRT
 <213> Enterobacter cloacae

<400> 11182
 Asp Val Phe Met Thr Asn Met Ile Ala Asp Glu Ala Val Ala Lys Ser
 1 5 10 15
 Ser Val Leu Ser Val Phe Asp Phe Asp Gly Thr Leu Thr His His Asp
 20 25 30
 Ser Phe Ile Pro Phe Leu Arg Phe Ala Phe Gly Lys Arg Tyr Phe Ala
 35 40 45
 Gly Arg Leu Val Arg Met Ala Leu Pro Thr Leu His Cys Val Arg Arg
 50 55 60
 Lys Leu Thr Arg Asp Glu Leu Lys Glu Val Leu Ile Lys Thr Phe Leu
 65 70 75 80
 Thr Gly Val Asp Glu His Trp Leu Arg Gln Gln Ala Glu Ala Phe Cys
 85 90 95
 Glu Lys Tyr Trp Asn Lys Leu Met Arg Pro Glu Gly Val Leu Ala Val
 100 105 110
 Ala Asn Glu Val Asn Ser Gly Ala Val Thr Ile Cys Ser Ala Ser
 115 120 125
 Pro Ala Leu Val Leu Gln Pro Trp Ala Asp Lys Leu Gly Ile Lys Leu
 130 135 140
 Ile Gly Thr Gln Leu Glu Val Lys Asp Gly Lys Leu Thr Gly Arg Ile
 145 150 155 160
 Thr Gly His Asn Cys Arg Cys Ala Gln Lys Val Ala Arg Leu Glu Lys
 165 170 175
 Val Tyr Gly Asp Leu Asn Ala Tyr His Leu Arg Ala Trp Gly Asp Thr
 180 185 190
 Arg Gly Asp His Glu Leu Leu Ala Ala Ala Gln Asp Pro His Trp Arg
 195 200 205
 His Phe His His Pro Ser Lys Arg Arg Asn Ser Pro Ile Lys Gly
 210 215 220

<210> 11183
 <211> 239
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (174)

<400> 11183
 Asn Lys Arg Ile Ala Ile Met Tyr Gly Asn Asn Glu Ile Val Ser Tyr
 1 5 10 15
 Leu Gln Ala Asn Lys Ile Leu Ala Leu Lys Leu Asp His Ala Val Thr
 20 25 30
 Ala Val Gly Gln Asn Val Lys Thr Gln Val Asn Met Ile Gly Lys Gly
 35 40 45
 Ala Thr Arg Leu Leu Tyr Tyr Ala Ser Cys Phe Thr Asp Glu Tyr Asn
 50 55 60
 Asp Val Cys Leu Arg Gln Lys Ser Glu Asp Leu Arg Phe Arg Asp Ala
 65 70 75 80
 Val Tyr Lys Leu Val Ser Gly Val Asp Val Val Tyr Glu Met Leu Arg
 85 90 95
 Leu Tyr Phe Glu Glu Val Phe Lys Tyr Lys Asn Pro Lys Gln Leu Glu
 100 105 110
 Tyr Ile Lys Gln Arg Leu Met Ala Val Asn Val His Ile Ala Ala Val

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<210> 11184
<211> 244
<212> PRT
<213> Enterobacter cloacae
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<210> 11185
<211> 79
<212> PRT
<213> Enterobacter cloacae
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<400> 11185

Ala Arg Leu Ala Gly Asp Ser Ile Tyr Pro Cys Ala Ser Ala Glu Asp
 1 5 10 15
 Ala Thr Val Asn Val Val Thr Ala Ser Ala Ile Leu Glu Ser Phe Ile
 20 25 30
 His His Pro Leu Ile Arg Ile Glu Gln Gly Ser Val Ser Leu Leu Met
 35 40 45
 Glu Trp Arg Met Arg His Phe Pro Glu Arg Val Lys Met Val Glu Ile
 50 55 60
 Lys Lys Gly Ser Gln Ser Cys Leu Leu Phe Leu Glu Ile Asn
 65 70 75

<210> 11186

<211> 373

<212> PRT

<213> Enterobacter cloacae

<400> 11186

Thr Lys Glu Arg Thr Met Pro Val His His Ala Ile Trp Arg Ile Gly
 1 5 10 15
 Glu His Pro Gln Pro Leu Thr Ile Ser Lys Leu Ala Ser Glu Gln Leu
 20 25 30
 Leu Glu Lys Met Ile Leu Asn Asp Pro Thr Ile Leu Ser Asp Gln Trp
 35 40 45
 Met Ile Ile Gly His Gln Glu Asn Thr Leu Asp Lys Gly Arg Ile Asp
 50 55 60
 Leu Leu Ala Ile Ala Pro Asp Ala Ser Leu Ile Leu Ile Glu Leu Lys
 65 70 75 80
 Arg Asp Arg Thr Pro Arg Glu Val Val Ala Gln Ala Leu Asp Tyr Ala
 85 90 95
 Ser Trp Val Asp Asp Leu Thr Ala Asp Arg Leu Ser Gln Ile Tyr Glu
 100 105 110
 Lys Phe Ser Gly Gly Gly Asn Leu Gly Ser Ala Phe Lys Gln Arg Phe
 115 120 125
 Asn Thr Glu Leu Glu Glu Glu Ser Leu Asn Gln Ser His Gln Ile Ile
 130 135 140
 Ile Val Ala Ala Glu Leu Asp Pro Ser Thr Glu Arg Ile Val Asp Tyr
 145 150 155 160
 Leu Ser Lys Asn Gly Ile Ser Ile Asn Val Leu Phe Phe Lys Val Phe
 165 170 175
 Gln His Gly Asp Glu Gln Phe Leu Ser Arg Ala Trp Leu Ile Asp Pro
 180 185 190
 Ser Glu Thr Gln Thr Asn Ala Ala Gln Ala Thr Ala Gly Thr Ser Ala
 195 200 205
 Asn Ala Lys Glu Pro Trp Asn Gly Glu Phe Tyr Val Ser Phe Gly Asp
 210 215 220
 Pro Gln Ser Arg Val Trp Glu Glu Ala Arg Arg Tyr Gly Phe Ile Ser
 225 230 235 240
 Ala Gly Gly Gly Ser Trp Tyr Ser Gln Thr Leu Lys Gln Leu Gln Pro
 245 250 255
 Gly Asp Arg Val Trp Val Lys Ile Pro Ala Thr Gly Tyr Val Gly Val
 260 265 270
 Gly Ile Val Gln Ser Ala Val Glu Pro Ala Ser Ser Phe Thr Ile Lys
 275 280 285
 Thr Glu His Gly Glu Met Pro Ala Ile Asp Val Leu Lys Tyr Ser Asp
 290 295 300
 Leu Tyr Arg Gln Asn Ala Asp Asp Pro Asp Lys Ser Glu Tyr Phe Val
 305 310 315 320
 Pro Val Lys Trp Leu Glu Thr Arg Ser Glu Leu Glu Ala Val Asn Glu
 325 330 335
 Val Gly Phe Phe Gly Asn Gln Asn Thr Val Cys Lys Pro Thr Thr Pro
 340 345 350

Lys Trp Arg Phe Thr Val Glu Lys Leu Lys Arg Tyr Phe Thr Gln Trp
 355 360 365
 Asp Thr Glu Lys
 370

<210> 11187
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 11187
 Val Asp Leu Met Thr Leu Thr Asn Arg Thr Lys Thr Ile Leu Arg Trp
 1 5 10 15
 Gly Gly Ile Cys Ile Val Ser Val Gly Tyr Phe Leu Gly Leu Phe Val
 20 25 30
 Ala Ser Gln Ala Phe Ala Val Phe Ser Glu Asn Gln Thr Leu Val Ser
 35 40 45
 Asn Pro Val Pro Leu Arg Glu Tyr Tyr Gln Ala Val Asp Ser Leu Gly
 50 55 60
 Gln Ala Thr Ser Gly Val Phe Asp Ala Ala Ile Tyr Gly Phe Val Ile
 65 70 75 80
 Ser Val Pro Leu Ile Leu Leu Ile Phe Lys Lys Val Arg
 85 90

<210> 11188
 <211> 70
 <212> PRT
 <213> Enterobacter cloacae

<400> 11188
 Phe Arg Val Cys His Gly Ser Ile Leu Phe Lys Val Arg Gln Ile Leu
 1 5 10 15
 Leu Phe Ser His Thr Asp Gly Phe Ala Ser Thr Phe Val Gly Lys Ile
 20 25 30
 Cys Glu Thr Gly Leu Gln Met Asn Asn Tyr Thr Tyr Lys Val Asn Phe
 35 40 45
 Asn Ser Ile Ser Gly Ile Arg His Val Arg Ile Lys Cys Leu Ile Cys
 50 55 60
 Thr Arg Asn Thr Phe
 65 70

<210> 11189
 <211> 152
 <212> PRT
 <213> Enterobacter cloacae

<400> 11189
 Pro Tyr Thr Gly Ile Ile Lys Met Asn Lys Leu Ile Phe Leu Val Leu
 1 5 10 15
 Phe Ser Thr Ala Ala Leu Gly Ala Glu Asp Phe Gln Ile Pro Met Gln
 20 25 30
 Arg Ala Leu Glu Phe Asn Arg Trp Tyr Val Lys Gln Val Asn Asn Asp
 35 40 45
 Arg Tyr Pro Ile Gln Gln Gly Asn Glu Ile Asp Glu Phe Val Thr Ala
 50 55 60
 Ser Thr Met Lys Lys Leu Arg His Ala Asp Asp Pro Arg Tyr Ala Asp
 65 70 75 80
 Ala Glu Phe Tyr Glu Ala Asp Phe Phe Met Lys Ser Gln Tyr Ile Gly
 85 90 95
 Glu Asp Trp Ala Glu Asn Val Ala Ile Asp Ser Tyr Asp Ser Asp Pro
 100 105 110

Val Cys Val Asn Val Asn Ile Thr Phe Gly Lys Lys Thr Gln His Thr
 115 120 125
 Val Ile Asp Cys Met Phe Lys Glu Asp Gly Val Trp Lys Ile Gln Ser
 130 135 140
 Val Ala Ala Arg Asp Asn Asn
 145 150

<210> 11190
 <211> 86
 <212> PRT
 <213> Enterobacter cloacae

<400> 11190
 Ser Ala Pro Arg Trp Cys Ile Ser Lys Leu Ile Ile Tyr Ser Glu Arg
 1 5 10 15
 Ile Asn Ile His Lys Glu Pro Phe Ala Leu Ser Lys Ala Cys Ile Lys
 20 25 30
 Ser Leu Asp Pro Lys Ser Glu Leu Arg Ile Met Pro Asp Asn Leu Pro
 35 40 45
 Gly Gly Ser Met Val Lys Arg Val Arg His Asn Val Leu Pro Arg Leu
 50 55 60
 Lys Ser Asp Ala Gly Leu Pro Phe Phe Phe Pro Leu Leu Asn Leu Phe
 65 70 75 80
 Pro Glu Pro Leu Ile
 85

<210> 11191
 <211> 166
 <212> PRT
 <213> Enterobacter cloacae

<400> 11191
 Pro His Gln Leu Phe Leu Lys Gln Val Glu Gly Pro Met Lys Gln Tyr
 1 5 10 15
 Thr Asn Lys Leu Thr Pro Glu Met Leu Ala Ala Phe Asp Glu Ser Pro
 20 25 30
 Phe Thr Ala Glu Gln Leu Ala Gly Met Asn Asp Glu Ala Ser Ser Leu
 35 40 45
 Ile Glu Lys Gln Asn Ala Tyr Asn Leu Ala His Pro Val Thr Ala Ala
 50 55 60
 Tyr Leu Ile Ala Thr Glu Gly Ser Leu Thr Arg Asn Gly Gly Lys Val
 65 70 75 80
 Phe Ser Glu Tyr Asn Gly Arg Gln Ile Lys Leu Asp Asp Gly Thr Met
 85 90 95
 Leu Asn Val Ser Arg Val Gly Asp Glu Val Arg Tyr Pro Asp Gly Thr
 100 105 110
 Ser Ala Lys Ile Thr Thr Gly Ala Gly Asn Thr Pro Gly Glu Ser Ile
 115 120 125
 Ala Leu Val Gly Ser Ser Leu Asp Asn Gly Asp Glu Ile Ile Ser Cys
 130 135 140
 Pro Gln Asn Ala Gly Arg Arg Val Val Arg Ala Gly Glu Ser Leu Pro
 145 150 155 160
 Glu Asn Phe Leu Lys
 165

<210> 11192
 <211> 73
 <212> PRT
 <213> Enterobacter cloacae

<400> 11192

Val Val Gly Arg Ser Thr Phe Ala Gly Gln Gly Ile Lys Gly Arg Ser
 1 5 10 15
 Pro Ala Gly Ala Ala Lys Ala Glu Ala Pro Ser Ile Ser Pro Ala Val
 20 25 30
 Lys Arg Leu Tyr Arg Asn Met Asn Val Pro Tyr Leu Thr Gly Gln Ile
 35 40 45
 Gln Ala Lys His Ser Val Asn Met Arg Ser Asn Cys Arg Gln Ala Asn
 50 55 60
 Ala Pro Thr Glu Ile Thr Gly Cys
 65 70

<210> 11193

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 11193

Pro Thr Asn Arg Glu Tyr Tyr Leu Ser Asn Tyr Lys Gly Glu Tyr Met
 1 5 10 15
 Arg Asp Lys Phe Ile Asp Ala Ile His Ser Arg Ser Lys Ile Met Leu
 20 25 30
 Thr Phe Tyr Ser Lys Glu Asp Asn Ala Thr Ile Thr Arg Leu Thr Ala
 35 40 45
 Pro Met Asp Phe Gly Pro Ser Arg Arg Ala His Asp Lys Ser Asp Arg
 50 55 60
 Phe His Phe Trp Asp Tyr Glu Ser Asp Lys Lys Asn His Val Leu Ser
 65 70 75 80
 Leu Arg Pro Glu Ala Ile Lys Ser Leu Val Val Ile Ala Gln Asn Phe
 85 90 95
 His Pro Gln Glu Phe Val Asn Trp Thr Pro Asn Trp Phe Ile Pro Arg
 100 105 110
 Asp Trp Asp Gln Tyr Ser
 115

<210> 11194

<211> 384

<212> PRT

<213> Enterobacter cloacae

<400> 11194

Asn Lys Ala Val Thr Met Ala Ser Val Asn Arg Gly Cys Thr Val His
 1 5 10 15
 Gly Lys Asn Val Gly Leu His Gly Asp Lys Thr Ser Thr Gly Ala Gln
 20 25 30
 Cys Ile Ala Ala Arg Pro Gly Met Ser Val Met Gly Leu Trp Lys Leu
 35 40 45
 Tyr Ile Gly Asp Lys Thr Thr Pro Cys Pro Lys Cys Gly Lys Val Gly
 50 55 60
 Val Ile Val Ser Gly Asp Pro Arg Cys Ser Asn Ser Val Ala Val Ala
 65 70 75 80
 Val Asp Gly Ala Glu Ile Leu Cys Gly Cys Pro Gln Gly Thr Asn Phe
 85 90 95
 Leu Ile Ala Pro Gly Thr Val Glu Val Asn Thr Pro Ser Trp Thr Ile
 100 105 110
 Ala Pro Gly Glu Pro Val Gln His Ala Gln Ala Ala Lys Lys Gln Asn
 115 120 125
 Ser Phe Thr Asp Thr Cys Lys Pro Glu Asp Asn Pro Leu Leu Asn Gly
 130 135 140
 Val Tyr Ile Trp Thr Glu Thr Thr Asp Ala Gly His Ala Phe Val Ser
 145 150 155 160
 Val His Gln Asp Asn Ser Ile Tyr Leu Tyr Thr Tyr Gly Arg Tyr Gly

				165					170					175			
Arg	Thr	Gly	Pro	Gly	Asn	Leu	Thr	Gly	Asp	Gly	Ile	Leu	Asn	Phe	Leu		
			180					185					190				
Gln	Gly	Glu	Asp	Ala	Arg	Val	Tyr	Tyr	Arg	Ala	Glu	Leu	Tyr	Arg	Met		
		195					200					205					
Gly	Ala	Arg	Ala	Phe	Arg	Ile	Asp	Asp	Ala	Asp	Pro	Thr	Lys	Thr	Arg		
	210					215					220						
Gln	Phe	Phe	Glu	Asp	Leu	Trp	Asn	Lys	Gly	Glu	Pro	Ala	Ile	Arg	Thr		
225					230				235						240		
Ser	Glu	Met	Lys	Glu	Thr	Thr	Gln	Arg	Arg	Gly	Arg	Thr	Ile	Asp	Glu		
			245					250						255			
Tyr	Asp	Val	Thr	Gly	Asn	Asn	Cys	Thr	Thr	His	Ser	Val	Glu	Gly	Ile		
		260						265				270					
Lys	Phe	Ala	Gly	Ser	Arg	Val	Phe	Glu	His	Asn	Tyr	Thr	Ser	Thr	Thr		
	275					280						285					
Thr	Gln	Ile	Pro	Ile	Glu	Ser	Ala	Glu	Asp	Phe	Thr	Ile	Pro	Val	Ser		
	290					295					300						
Leu	Gln	Arg	Tyr	Leu	Glu	Ser	Lys	Ser	Ser	Asp	Phe	Ser	Ser	Met	Thr		
305				310						315					320		
Val	Val	Glu	Met	Thr	Gly	Glu	Phe	Lys	Lys	Met	Tyr	Pro	Asn	Lys	Asp		
			325					330						335			
Asn	Leu	Pro	Arg	Tyr	Gln	Glu	Ser	Pro	Lys	Gly	Lys	Val	Gln	His	Ile		
		340						345					350				
Ala	Ala	Glu	Ala	Ala	Ala	Thr	Gly	Asp	Ser	Leu	Ser	Gln	Tyr	Ser	Ser		
	355					360						365					
Gly	Thr	Phe	Gly	Gly	Val	Leu	Gly	Gly	Ser	Tyr	Asp	Val	Asp	Glu			
	370					375					380						

<210> 11195

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 11195

Gly	Arg	Gly	Lys	Leu	Leu	Gly	Asp	Lys	Met	Trp	Thr	Glu	Pro	Lys	Arg		
1			5					10					15				
Pro	Ala	Gln	Pro	Val	Gln	Gln	Ala	Gln	Thr	Leu	Ile	Lys	Gly	Gly	Thr		
		20					25					30					
Leu	Asn	Ser	Val	Ala	Ala	Ile	Met	Val	Arg	Asp	Asp	Ile	Lys	Pro	Met		
	35					40					45						
Ile	Ala	Leu	Asp	Phe	Ile	Ala	Arg	Leu	Gly	Tyr	Ile	Leu	Pro	Cys	His		
	50				55					60							
Asp	Val	Val	His	Ala	Val	Gly	Ser	Asp	Tyr	Ala	Leu	Cys	Gly	Asp	Gly		
65				70				75						80			
Ser	Ile	Gly	Gln	Val	Lys	His	Gln	Lys	His	Leu	Ala	Ala	Ala	Leu	Arg		
			85					90						95			
Thr	Gly	Lys	His	Arg	Trp	Asn	Phe	Lys	Arg	Arg	His	His	Leu	Ser	Gly		
		100						105					110				
Ile	Gln	Cys	Glu	Cys	Leu	Ile	Arg	Ile	Ala	Lys	Gly	Trp	Ala	Leu	Lys		
	115					120						125					
Ser	Ala	Pro	Ala	Gly	Leu	Ser	Leu	Arg	Ile	Ala	Gly	Glu	His	His	Arg		
	130					135					140						
Ile	Phe	Asp	Val	Arg	Asn	Arg	Cys	Lys									
145					150												

<210> 11196

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 11196

His Glu Leu Ile Asn Asn Leu Thr Arg Gln Glu Cys Asp Pro Asp Leu
 1 5 10 15
 His Leu Arg His Arg Arg Lys Thr Cys Leu Arg His Ile Ala Leu Asn
 20 25 30
 Lys Tyr Glu Asn Lys Ile Met Lys Lys Ile Lys Thr Ala Thr Ala Ala
 35 40 45
 Met Val Leu Ser Ala Leu Ser Phe Gly Val Phe Ala Ala Asp Asn Thr
 50 55 60
 Gln Pro Ala Asn Asp Val Asn Ser Pro Ile Gly Ile Ala Lys Ala Ser
 65 70 75 80
 Asp Val Glu Ala Gly Ser Asn Ile Ala Pro Gly Thr Gln Ser Thr Gly
 85 90 95
 Gln Ser Met Asn Asp Ala Phe Asp Val His Lys Leu Val Ala Gly Glu
 100 105 110
 Trp Ser
 115

<210> 11197
 <211> 97
 <212> PRT
 <213> Enterobacter cloacae

<400> 11197
 Asn Ile Phe Arg Gly Phe Leu Tyr Arg Ile Ala Arg Leu Thr Ile Phe
 1 5 10 15
 Arg Gln Gln Asp Ala Leu Ala Lys Arg Arg Lys Val Gln Arg Met Gly
 20 25 30
 Cys His Met Lys Leu Glu Ser Leu Ala Leu Thr Arg Asp Leu Leu His
 35 40 45
 Asp Pro Ile Ala His Asp Gly Phe Pro Gly Gly Phe Arg Arg Asn Pro
 50 55 60
 Gly Glu Gln Arg Pro Glu Arg Leu Met Arg Arg Gly Lys Thr Arg Gln
 65 70 75 80
 Val Val Leu Pro Glu Arg Gln Arg Phe Ser Gln Leu Gln Gly Thr Gly
 85 90 95

<210> 11198
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 11198
 Ile Val Asn Ile Phe Thr Thr Ser Gly Ala Leu Pro His Glu Asn Lys
 1 5 10 15
 Lys Glu Tyr Ala Glu Ala Lys Tyr Asn Ser Gly Ile Val Ile Ala Arg
 20 25 30
 Glu Ile Tyr Arg Ser Phe Thr Pro Cys Ser Arg Ala Lys Arg Ala Glu
 35 40 45
 Met Val Gln Ile Leu His Arg Trp His Tyr Leu Ser Gln
 50 55 60

<210> 11199
 <211> 64
 <212> PRT
 <213> Enterobacter cloacae

<400> 11199
 Asp Leu Ser Leu Arg Phe Ile Ala Cys Tyr Tyr Ser Glu Ser Ile Leu
 1 5 10 15

Thr Leu Lys Ser Ala Ile Ile Ile Ser Asn Gly His Phe Phe Val Leu
 20 25 30
 Phe Cys Tyr Lys Gln Val Pro Ala Asp Glu Tyr Ser Ala Ile Phe Tyr
 35 40 45
 Ser Pro Leu Gln Thr Ser Thr His Thr Asn Glu Ser Ile Trp Leu
 50 55 60

<210> 11200

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 11200

Arg Gly Ala Val Ala Arg Pro Ser Gln Val Arg Leu Glu Pro Glu Ser
 1 5 10 15
 Pro Asn Val Phe Gln Asp Ser Ile Lys Gln Leu Gln Tyr Ser Asn Asn
 20 25 30
 Glu Phe Glu Asp Lys Tyr Asp His Ile His Asp Ala His Thr Arg Leu
 35 40 45
 Leu Leu Val Lys Arg Ser Thr Met Leu Ala Tyr Leu Ser Ala Ala Cys
 50 55 60
 Gly Gln His Leu Asp
 65 70

<210> 11201

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 11201

Arg Gly Asn Ala Met Ser Arg Leu Leu Ile Glu Pro Val Thr Pro Asp
 1 5 10 15
 Glu Pro Gly Tyr Ile Ala Leu Lys Ala Glu Ser Ile Ala Leu Asn Phe
 20 25 30
 Asn Met Leu Arg Arg Leu Glu Glu Asn Trp Gln Arg Gly Glu Asn Arg
 35 40 45
 Phe Asn Ala Pro Gly Glu Lys Leu Leu Gly Ala Phe Leu Asn Gly Arg
 50 55 60
 Leu Val Gly Val Cys Gly Leu Asn Arg Asp Pro Phe Ser Gln Gln Pro
 65 70 75 80
 Arg Ala Gly Arg Ile Arg His Leu Tyr Val Ser Glu Lys Cys Arg Gly
 85 90 95
 Gln Gly Ile Gly Lys Gln Leu Leu Thr Val Val Met Ala Asp Ala Ser
 100 105 110
 Ile Trp Phe Asp Phe Leu Asn Thr His Ala Pro Glu Thr Ala Tyr Gly
 115 120 125
 Phe Tyr His Arg Ala Gly Phe Arg Leu Val Ser Asp Glu Pro Arg Val
 130 135 140
 Thr His Arg Leu Phe Cys Ala Val
 145 150

<210> 11202

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 11202

Leu Pro Ser Lys Met Pro Ser Thr Arg Ala Ser Arg Ile Cys Gln Ala
 1 5 10 15
 Arg Leu Thr Phe Lys Phe Phe Ile Glu Thr Asp Phe Leu Asn Glu Ile
 20 25 30

Ser Ala Pro Ser Lys Leu His Glu Tyr Gly Asp Ile Leu Lys Gly Tyr
 35 40 45
 Glu Leu Cys Cys Val Gly Leu Trp Asp Phe Leu Thr Arg Arg Met Ser
 50 55 60
 Ile Ile Cys Thr Ala Cys Cys Ala Ser Leu Lys Glu Gln Gly Ile Ser
 65 70 75 80
 Leu Gln Lys Val Ser Leu Ser Val Ile Tyr Ser Asn Ser His Lys
 35 90 95

<210> 11203

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 11203

Arg Pro Ala Ala Ile Ala Pro Cys Arg Asp Thr Arg Ser Ala His Cys
 1 5 10 15
 Val Ala Thr Arg Phe Arg Pro Gly Ile Gly Cys Ser Arg Leu Ile Cys
 20 25 30
 His Lys Lys Gly Asp Ser Asp Ala Asn His Arg Lys Phe Lys Met Phe
 35 40 45
 Phe His Ser Val Leu Val Asn Ser Leu Leu Leu Val Asn Pro Val Cys
 50 55 60
 Tyr His Pro Asn Arg Asn Glu Leu Leu Leu
 65 70 75

<210> 11204

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 11204

Leu Glu Cys Leu Asn Ala Trp Leu Phe Val Gln Pro Thr Thr Cys Ser
 1 5 10 15
 Ala Ile Leu Thr Glu Gln Met Ala Thr Leu Trp Arg Gln Thr Asp Ser
 20 25 30
 Glu Cys Gly Thr Leu Phe Tyr Gln His His Val Ile Leu Ala Val Asp
 35 40 45
 Gln Val Leu Thr Asp Gly Gly Asp Leu Asp Met Asn Leu Cys Phe Val
 50 55 60
 Thr Lys Leu Phe Asp Asp Leu Asn Phe Thr Phe Gln Arg His Ile Arg
 65 70 75 80
 Asn Val Ala Trp Gln
 85

<210> 11205

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 11205

Leu Glu Glu Leu Tyr Ser Pro Ala Glu Lys Met Thr Asn Gln Pro Gly
 1 5 10 15
 Gln Met Ser Pro Gln Arg Gly Asn Leu Met Ser His Gln Gln Ile Ile
 20 25 30
 Gln Thr Leu Ile Glu Trp Ile Asp Glu His Ile Asp Gln Pro Leu Asn
 35 40 45
 Ile Asp Val Val Ala Lys Lys Ser Gly Tyr Ser Lys Gly Ile Tyr Arg
 50 55 60
 Glu Cys Ser Ala Pro
 65 70

<210> 11206
 <211> 80
 <212> PRT
 <213> Enterobacter cloacae

<400> 11206
 Ser Gly Val Gly Ala Glu Ala Arg Ala Thr Thr Val Leu Leu Ser Glu
 1 5 10 15
 Asn Asn Lys Gln Ala Ala Leu Ser Ala Ser Val Ile Leu Arg Ile Phe
 20 25 30
 Ser Pro Glu Tyr Ser Val Cys Tyr Leu Phe Ile Leu Ser Gly Trp Ser
 35 40 45
 Lys Asn Tyr Pro Thr Ile Thr Pro Ala Gly Gly Glu Gly Lys Glu Phe
 50 55 60
 Leu Leu Ile Lys Arg Asn Lys Lys Lys Thr Ile Thr Lys Cys Gly
 65 70 75 80

<210> 11207
 <211> 143
 <212> PRT
 <213> Enterobacter cloacae

<400> 11207
 Gly Val Lys Thr Leu Thr Leu Ser Cys Ser Ala Lys Asn Thr Glu Ile
 1 5 10 15
 Arg Gln Ala Val Leu Tyr Leu Thr His Arg Lys Ser Gly Asp Arg Lys
 20 25 30
 Met Lys Arg Pro Asp Cys Ile Arg His Trp Arg Asp Val Glu Gly Ala
 35 40 45
 Asp Asp Ala Thr Tyr Pro Asp Ser Asn Glu Arg Phe Ser Ile Gly Ala
 50 55 60
 Pro Leu Ala Arg Lys Leu Gly Leu Gly Arg Ile Gly Ile His His Glu
 65 70 75 80
 Arg Leu Pro Pro Gly Arg Arg Thr Ser Tyr Pro His Ala Glu Ser Asp
 85 90 95
 Glu Glu Glu Phe Val Tyr Val Leu Glu Gly Tyr Pro Glu Ala Trp Ile
 100 105 110
 Asn Gly Tyr Phe Met Glu Ala Arg Thr Arg Arg Gln Arg Gly Ile Ser
 115 120 125
 Ser Arg Asp Gly Arg Val Ser His Leu Tyr Gln Gln Tyr Arg
 130 135 140

<210> 11208
 <211> 85
 <212> PRT
 <213> Enterobacter cloacae

<400> 11208
 Arg Glu Ile Val Met Lys Lys Val Leu Tyr Gly Ile Phe Ala Ile Ser
 1 5 10 15
 Ala Leu Ala Ala Thr Ser Val Tyr Ala Ala Pro Val Gln Val Gly Glu
 20 25 30
 Ala Ala Gly Ala Ala Ala Thr Ser Ala Ser Ala Gly Ser Ser Thr Ala
 35 40 45
 Ala Ser Thr Ser Ala Val Ser Ser Ala Val Gly Val Ala Leu Ala Ala
 50 55 60
 Thr Gly Gly Gly Asp Gly Ser Asn Thr Gly Thr Thr Thr Thr Thr
 65 70 75 80
 Thr Ser Thr Gln
 85

<210> 11209
 <211> 162
 <212> PRT
 <213> Enterobacter cloacae

<400> 11209
 Lys Asp Leu Thr Val Phe Gly Thr Gly Gly Thr Trp Lys Ala Leu Met
 1 5 10 15
 Thr Gln Arg Ile Leu Thr Ala Thr Asn Val Phe Leu Leu Ala Arg Arg
 20 25 30
 Trp Pro Ala Asn Trp Val Ser Ala Ala Leu Val Phe Thr Met Asn Gly
 35 40 45
 Cys Arg Pro Asp Ala Ala His Leu Ile Arg Met Arg Lys Ala Thr Lys
 50 55 60
 Arg Ser Leu Phe Thr Phe Trp Arg Val Thr Leu Arg Pro Gly Ser Met
 65 70 75 80
 Gly Ile Leu Trp Lys Leu Glu Pro Gly Asp Ser Val Gly Phe Pro Ala
 85 90 95
 Gly Thr Gly Val Cys His Thr Phe Ile Asn Asn Thr Asp Glu Glu Val
 100 105 110
 Arg Leu Leu Val Val Gly Glu Ala Asn Lys Lys His Asn Arg Ile Tyr
 115 120 125
 Tyr Pro Leu Asn Pro Val Tyr Ala Ala Thr Arg Glu Asp Arg Trp Val
 130 135 140
 Asp His Pro Pro Gln Phe Phe Gly Pro His Asp Gly Lys Pro Gly Arg
 145 150 155 160
 Lys

<210> 11210
 <211> 444
 <212> PRT
 <213> Enterobacter cloacae

<400> 11210
 Gln Thr Ile Tyr Glu His Thr Val Lys Lys His Phe Lys Phe Ser Met
 1 5 10 15
 Val Ser Ile Ala Val Ser Phe Phe Met Ala Asn Gln Ala Gly Ala Ala
 20 25 30
 Asn Thr Trp Thr Glu Ala Arg Ser Asp Ala Met Gly Gly Thr Gly Val
 35 40 45
 Ala Ala Gly Ser Tyr Gly Ser Gly Ala Leu Ile Asn Pro Ala Leu Leu
 50 55 60
 Ala Lys Ser Lys Pro Glu Asp Asp Val Thr Val Ile Leu Pro Ser Val
 65 70 75 80
 Gly Val Gln Val Thr Asp Glu Asp Asn Leu Gln Asp Glu Ile Asp Thr
 85 90 95
 Ile Asn Asp Lys Ile Asn His Tyr Lys Asp Val Val Asp Ser Leu Thr
 100 105 110
 Pro Ile Glu Val Ile Thr Asn Pro Leu Gly Ser Ile Asn Gln Phe Gln
 115 120 125
 Gly Ala Ala Lys Asp Leu Ala Asp Glu Leu Asp Tyr Leu Lys Gly Lys
 130 135 140
 Thr Ala His Ala Thr Ala Gly Ala Gly Ile Ala Val Ser Ile Pro Asn
 145 150 155 160
 Asp Val Leu Ser Val Ala Phe Met Ala Lys Gly Tyr Ala His Gly Arg
 165 170 175
 Val Ser Ser Ser Ile Asp Gln Gln Asp Ile Asp Tyr Leu Arg Gly Ile
 180 185 190
 Gln Arg Ser Asp Ala Val Ala Ala Gly Val Ala Leu Asp Ala Ala Leu

195	200	205
Asn Gly Thr Asp Gln Ile Thr Lys Asn Leu Asn Ser Thr Ala Ser Gly		
210	215	220
Arg Ala Ala Ile Val Ser Asp Tyr Gly Ile Ala Val Ala Arg Gln Phe		
225	230	235
Asp Leu Gly Gly Val Pro Val Ser Val Gly Val Thr Pro Lys Leu Gln		
	245	250
		255
Lys Thr Trp Leu Tyr Asn Tyr Thr Thr Ser Ile Tyr Asp Tyr Asp Ser		
	260	265
		270
Asn Lys Trp Asn Asp Ser Arg Tyr Arg Thr Asp Asp Thr Gly Phe Asn		
	275	280
		285
Val Asp Ala Gly Ile Ala Ala Asp Phe Gly Glu Asn Trp Thr Val Gly		
	290	300
Val Ser Gly Gln Asn Leu Met Ser Arg Asp Ile Asp Thr Lys Asp Ile		
305	310	315
Arg Ile Arg Asn Gly Arg Thr Gly Glu Val Val Ser Tyr Lys Asp Thr		
	325	330
		335
Tyr Gln Ile Arg Pro Leu Val Thr Val Gly Ala Ala Trp His Asn Asp		
	340	345
		350
Leu Val Thr Leu Thr Ala Asp Gly Asp Leu Thr Glu Thr Lys Gly Phe		
	355	360
		365
Lys Ser Glu Asp Thr Ser Gln Tyr Val Gly Val Gly Ala Glu Val Thr		
	370	375
		380
Pro Leu Ser Trp Leu Ala Val Arg Ala Gly Tyr Arg Ala Asp Met Lys		
385	390	395
Gly Asn Asp Ser Asn Val Phe Thr Gly Gly Val Gly Phe Ala Pro Phe		
	405	410
		415
Asn Ala Val His Val Asp Leu Met Gly Leu Tyr Gly Glu Asp Glu Thr		
	420	425
		430
Trp Gly Ala Gly Ala Gln Leu Ser Met Thr Phe		
	435	440

<210> 11211

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 11211

Arg Leu Gln Gln Tyr Val Tyr Gly Leu Cys Leu Cys Gly Thr Ile Asn	
1	5
	10
	15
Val Pro Ala Glu Ile Ile His Arg Ile Glu Leu Ile Ala Phe Phe Gly	
	20
	25
	30
Phe Tyr Ile Leu Cys Phe Thr Leu Ser Met Leu Phe Asp Phe Val Val	
	35
	40
	45
Leu Phe Phe Tyr Ser Asp Met Ser Tyr Cys Gly Cys Ser Leu Asp	
	50
	55
	60

<210> 11212

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 11212

Leu Phe Ser Ser Ser Arg Met Lys Asn Glu Lys Lys Tyr Val Val Ile	
1	5
	10
	15
Pro Tyr Gly Glu Tyr Phe Arg Met Arg Leu Ala Met Leu Glu Tyr Asp	
	20
	25
	30
Asp Asp Asp Glu Asn Asp Trp Glu Asp Ile Pro Tyr Glu Ser Asp Ile	
	35
	40
	45
Tyr Asp Asn Val Gly Leu Pro Gly Glu Val Cys Asp Ile Met His Asn	
	50
	55
	60

Glu Asn Val Ser Leu Gln Ala Ala Trp Arg Ile Leu Arg Gly Met Ser
 65 70 75 80
 Gln Gln Glu Val Ala Glu Lys Leu Gly Ile Ser Gln Ser Ala Val Ser
 85 90 95
 Gln Leu Glu Ala Leu Asp Ser Arg Pro Gln Lys Arg Thr Arg Glu Lys
 100 105 110
 Leu Ala Ala Leu Tyr Gly Cys Lys Gln Glu Gln Ile Ser Leu Tyr Leu
 115 120 125
 Pro Lys Glu Gly
 130

<210> 11213

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 11213

Glu Asp Asn Ile Val Thr Leu Asp Pro Glu Thr Asp Leu Lys Leu Glu
 1 5 10 15
 Arg Val Val Asp Ala Pro Arg Asp Leu Leu Trp Leu Cys Trp Thr Thr
 20 25 30
 Pro Glu His Ile Lys Asn Phe Phe Ile Pro Ala Pro His Lys Val Thr
 35 40 45
 Glu Cys Asp Leu Asp Leu Arg Val Gly Gly Arg Phe Asn Thr Val Phe
 50 55 60
 Glu Val Asp Gly Gln Arg Met Asp Asn Arg Gly Val Phe Leu Glu Ile
 65 70 75 80
 Asp Pro Gly Lys Lys Leu Val Phe Thr Asp Gly Tyr Thr Glu Gly Trp
 85 90 95
 Lys Pro Ala Glu Lys Pro Phe Met Thr Ala Ile Leu Leu Leu Glu Asp
 100 105 110
 Ala Gly Glu Gly Lys Thr Arg Tyr Thr Ala Ile Ala Arg His Pro Thr
 115 120 125
 Lys Glu Ile Arg Glu Gln His Glu Gln Met Gly Phe His Glu Gly Trp
 130 135 140
 Gly Ile Val Leu Asp Gln Leu Val Gly Tyr Val Lys Gly Leu Asn Ala
 145 150 155 160

<210> 11214

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 11214

Ile Glu Lys Thr Gln Ser Ala Ser Ala Thr Ala Pro Asp Gly Ile Thr
 1 5 10 15
 Ile Ser Phe Leu Asn Ile Cys Phe Pro Asp Trp Leu Gly Ala Ile Asn
 20 25 30
 Phe Trp Gly Leu Leu Lys His Lys Lys Arg Pro Gln Ala Leu Phe Gly
 35 40 45
 Tyr Gln Glu Phe Arg Leu Gly Ser Ala Gly Asn Gln His Phe Gly Gly
 50 55 60
 Asp Asn Asn Asp Asn Gln Ala Asn Gln His Arg His
 65 70 75

<210> 11215

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 11215

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Ile Ser Leu Lys Pro Leu Leu Phe His Ser Phe Ala Cys Leu Tyr Ser
1          5          10          15
Val His Phe Leu Leu Ser Asp Asp Leu Asn Met Tyr Ala Ser Trp Thr
          20          25          30
Tyr Arg Leu Arg Phe Ile Lys Lys His Leu Leu Met Phe Leu Leu Ala
          35          40          45
Phe Gly Trp Leu Leu Ile Gln Thr Gln Val Ala Val Ala Ser His Gln
          50          55          60
Cys Ser Met Asp Leu Arg Gly Glu Val Ala Thr Ile Gln His Met Glu
65          70          75          80
Met Met Ala Gln Pro Gly Pro His Tyr Ala Ala Gly Ala Ser Pro Leu
          85          90          95
Cys Glu Lys His Cys Val Pro Asp Gln Val Gln Lys Asp Pro Ala Gln
          100          105          110
Pro His Leu Val Ala Leu Pro Ala Ala Met Thr Leu Thr Leu Thr Pro
          115          120          125
Pro Glu Cys Ser Ser Ala Ser His Ser Ala Trp Ser Val Thr Pro Pro
          130          135          140
Ala Val Gly Pro Pro Ala Thr Ile Arg Tyr Cys Arg Phe Arg Glu
145          150          155          160

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<210> 11216

<211> 414

<212> PRT

<213> Enterobacter cloacae

<400> 11216

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Met Ser Met Leu Pro Thr Pro Glu Tyr Ser Arg Asn Met Arg Leu Ile
1          5          10          15
Gly His Ser Asp Gln Gly Gly Arg Pro Asp Gly Val Gln Leu Met Val
          20          25          30
His Arg Gly Phe Ala Tyr Ile Gly His Met Val Ser Gln Gly Phe Ser
          35          40          45
Ile Val Asp Val Arg Asp Pro Lys Asn Pro Lys Pro Ala Gly Tyr Val
          50          55          60
Pro Ala Pro Pro Gly Thr Trp Asn Val His Leu Gln Ala His Asp Asp
65          70          75          80
Leu Leu Leu Val Ile Asn Ala Arg Asp Leu Phe Ala Asp Ala Arg Phe
          85          90          95
Ala Asp Glu Lys Val Tyr Tyr Thr Arg Gln Val Gly Glu Thr Val Ser
          100          105          110
Asp Val Gln Asp Arg Gly Trp Ser Ala Gly Leu Arg Val Phe Asp Ile
          115          120          125
Ser Thr Pro Asp Arg Pro Arg Glu Ile Gly Phe Leu Ser Leu Ser Gly
          130          135          140
Ile Gly Ile His Arg Ile Trp Tyr Val Gly Gly Arg Trp Ala Tyr Val
145          150          155          160
Ser Ala Leu Ile Asp Gly Phe Thr Asp Tyr Ile Phe Leu Thr Ile Asp
          165          170          175
Leu Ala Asp Pro Arg Lys Pro Glu Val Ala Gly Arg Trp Trp Leu Pro
          180          185          190
Gly Met Asn Gln Ser Ala Gly Glu Gln Pro Asp Trp Pro Glu Gly Lys
          195          200          205
Arg Tyr Ala Leu His His Ala Ile Ile Ala Gly Asp Thr Ala Tyr Gly
          210          215          220
Ser Trp Arg Asp Gly Gly Leu Thr Leu Leu Asp Val Lys Asp Arg Thr
225          230          235          240
Gln Pro Lys Leu Ile Ser His Arg Asn Trp Ser Pro Pro Phe Gly Gly
          245          250          255

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Gly Thr His Thr Ala Leu Pro Leu Pro Asp Arg Asp Leu Leu Val Val
 260 265 270
 Leu Asp Glu Ala Val Leu Asp Asn Gln Glu Asp Gly Glu Lys Leu Ile
 275 280 285
 Trp Leu Phe Asp Ile Arg Glu Pro Ser Asn Pro Val Ser Ile Ser Thr
 290 295 300
 Phe Pro His Pro Asp Glu Ile Asp Tyr Val Ala Lys Gly Ala His Phe
 305 310 315 320
 Gly Pro His Asn Leu His Glu Asn Arg Pro Gly Ser Phe Val Ser Ser
 325 330 335
 Thr Leu Ile Phe Ala Thr Tyr Gln Asn Ala Gly Val Arg Ala Tyr Asp
 340 345 350
 Ile Ser Asn Pro Tyr Arg Pro Val Glu Thr Gly Ala Leu Val Pro Ala
 355 360 365
 Ala Pro Glu Arg Met Met Asp Thr Arg Pro Asn Arg Pro Gln Val Ile
 370 375 380
 Gln Ser Cys Asp Val Phe Val Asp Ala Gln Gly Ile Ile Tyr Ser Thr
 385 390 395 400
 Asp Tyr Asn Asp Gly Leu Ser Val Ile Glu Tyr Leu Gly
 405 410

<210> 11217

<211> 293

<212> PRT

<213> Enterobacter cloacae

<400> 11217

Thr Val Ser Ser Val Pro Ala Ser Ala Ser Ser Cys Pro Asn Thr Ile
 1 5 10 15
 Pro Asn Thr Met Asn Ser Thr Val Val Lys Gly Ala Ala Met Asn Met
 20 25 30
 Lys Pro Ile Gly Gly Met Leu Leu Leu Met Val Ser Thr Phe Ala Phe
 35 40 45
 Ala Gln Gln Ser Phe Ser Thr Pro Glu Gln Ala Ala Asn Ala Leu Thr
 50 55 60
 Lys Ala Ile Ser Glu Gln Asn Glu Ser Ala Met Ala Asp Leu Leu Gly
 65 70 75 80
 Asp Asn Trp Arg Asp Tyr Leu Pro Pro Glu Gly Val Asp Pro Glu Ala
 85 90 95
 Val Ala Arg Phe Leu Arg Asp Trp Lys Ile Asn His Arg Thr Glu Ile
 100 105 110
 Ser Gly Asp Ile Ala His Leu Ser Val Gly Asp Asn Gly Trp Gln Leu
 115 120 125
 Pro Ile Pro Val Val Lys Lys Lys Glu Gly Trp Gln Phe Asp Met Gln
 130 135 140
 Lys Ala Ala Asp Glu Ile Leu Thr Arg Glu Ile Gly Arg Asn Glu Leu
 145 150 155 160
 Ala Ala Ile Glu Ala Leu His Ala Tyr Val Asp Ala Gln Arg Ser Tyr
 165 170 175
 Tyr Ala Met Asn His Arg Tyr Ala Gln Lys Ile Val Ser Thr Pro Gly
 180 185 190
 Leu Lys Asp Gly Leu Tyr Trp Pro Ile Ser Pro Gly Glu Ala Pro Ser
 195 200 205
 Pro Leu Gly Pro Ala Phe Ser Pro Pro Glu Pro Gly Met Gly Tyr His
 210 215 220
 Gly Tyr Arg Phe Arg Ile Leu Ser Asp Lys Asn Gly Phe Ala Met Val
 225 230 235 240
 Ala Trp Pro Val Ser Tyr Gly Gln Thr Gly Val Met Ser Phe Val Val
 245 250 255
 Asn Gln Glu Asp Lys Val Tyr Gln Ala Asn Leu Gly Asn Asp Ser Ala
 260 265 270

Gln Lys Ala Gln Ala Leu Ala Ala Tyr His Pro Asp Lys Thr Trp Gln
 275 280 285
 Pro Val Thr Pro
 290

<210> 11218

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 11218

Arg Asp Asp Pro Gln His Ile Gly Arg Thr Gly Cys Gly Asn Leu Thr
 1 5 10 15
 Leu Ser Phe Leu Val Asp Asn Gly Val Glu Gln Gly Ile Lys Pro Gly
 20 25 30
 Phe Phe Arg Trp Ile Gly Lys Tyr Val Leu Thr Gln Leu Pro Thr Ile
 35 40 45
 Gln Gly Ala Val Ser Leu Tyr His Thr Ala Thr Lys Met Arg Phe Asp
 50 55 60
 Gly Val
 65

<210> 11219

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 11219

Cys Arg Lys Ile Ser Ser Gly Lys Cys Ala Arg His Ile Pro Ala Asn
 1 5 10 15
 Gly Gln Pro Val Gly Leu Leu Ser Glu Ala Pro Ala Gly Phe Lys Gly
 20 25 30
 Tyr Cys Trp Phe Ser Leu Gln Ser Ser Leu Ser Glu Arg Ser Pro Ser
 35 40 45
 Leu Gly Met Arg Phe Ser Ser Ala Ala His Ser Pro Arg Ser Ile Ser
 50 55 60

65

<210> 11220

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 11220

Ala Gly Asp Gly Asn Ser Glu Gly Arg Ser Cys Glu Arg Pro Ala Ala
 1 5 10 15
 Arg Cys Arg Arg Gly Asp Asp Arg Leu Thr Glu Leu Leu Pro Gly Pro
 20 25 30
 Val Thr Gly Cys Tyr Ile Met Leu Asn Asp Ser Ala Asn Phe Leu Met
 35 40 45
 Leu Leu Phe Cys Lys Gln Ile Asn Thr Val Gln Lys Ser Cys Tyr Ala
 50 55 60
 Ala Arg Arg Gly Ile Gly His Leu Pro Tyr Lys Leu Leu Ser His Arg
 65 70 75 80
 Ser Val Lys Arg Thr Pro Ala Ala Tyr Asp Asn Glu Ser Glu Glu Asn
 85 90 95
 Arg Arg Ala Arg Arg Ile Pro
 100

<210> 11221

<211> 63
 <212> PRT
 <213> Enterobacter cloacae

<400> 11221
 Gln Pro Gln Leu Asn Thr Ala Phe Ser Asn Lys Met Thr Val Ile Tyr
 1 5 10 15
 Gln Val Ala Cys Gln Leu Phe Lys Leu Leu Lys Ile Met Asp Leu Tyr
 20 25 30
 Phe Asp Ala Pro Lys Trp Val Val Ile Leu Thr Ile Leu Lys Ile Val
 35 40 45
 Asn Met Thr Leu Cys Ile Val Lys Met Thr Val Arg Gln Arg
 50 55 60

<210> 11222
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 11222
 Arg Gln Pro Gly Asn Val Ser Val Thr Tyr Pro Gly Lys Arg Gly Arg
 1 5 10 15
 Cys Gly Ile Glu Ser Ala Ser His Arg Arg Lys Gly Asp Ala Gly Asn
 20 25 30
 Lys His Val Tyr Gln Ile Lys Glu Lys Ala Glu Gln Lys Asp Asp Gly
 35 40 45
 Asp Phe Ala Ala Ile Arg His Gly Ser Ser Ser Gly Glu Val Ala Tyr
 50 55 60
 Arg Ile Gly Pro His Val Thr Asp Lys Arg Asp Lys Ala Arg Tyr Thr
 65 70 75 80
 Val Asn Ile Ile Leu Thr Val Asn Gln Ala Ser Asp Ala
 85 90

<210> 11223
 <211> 172
 <212> PRT
 <213> Enterobacter cloacae

<400> 11223
 Ala Gly Arg Arg Thr Asp Gln Lys Thr Gly Thr Gly Leu Met Thr Thr
 1 5 10 15
 Ala Val Leu Gln Met Arg Gln Gly Val Leu Leu Thr Thr Ser Cys Leu
 20 25 30
 Leu Ala Phe Val Leu Leu Phe Leu Val Ile Ala Leu Gly Val Ser Ile
 35 40 45
 Gly Glu Leu Ser Ile Pro Leu Asn Asn Val Phe Tyr Ala Ile Ser Asn
 50 55 60
 Lys Leu Gly Leu Thr Asp Val Pro Leu Asn Arg Ile Tyr Glu Ser Val
 65 70 75 80
 Ile Trp Asp Phe Arg Leu Ser Arg Ala Leu Val Ala Ala Cys Cys Gly
 85 90 95
 Ala Gly Leu Ala Ile Cys Gly Ala Val Leu Gln Ser Leu Leu Lys Asn
 100 105 110
 Ala Leu Ala Glu Pro Tyr Val Leu Gly Val Ser Ala Gly Ala Ser Thr
 115 120 125
 Gly Ala Val Ser Val Val Val Leu Gly Leu Gly Thr Gly Arg Ser Val
 130 135 140
 Ala Phe Cys Gly Arg Val Cys Arg Ser Leu Arg Arg Leu Cys Leu Cys
 145 150 155 160
 Arg Leu Pro Asp Gln Arg Arg Ala Arg Arg Gln
 165 170

<210> 11224
 <211> 121
 <212> PRT
 <213> Enterobacter cloacae

<400> 11224
 Thr Leu Val Asn Asp Pro Val Arg Phe Arg Gln Leu Phe Gln Arg Val
 1 5 10 15
 Asn Arg Met Val Cys Gln Pro Ala Trp Arg Cys His Gly Gln Asp Gly
 20 25 30
 Glu Gly Gly His Gln Arg Gly Val Ala Arg Ile Cys Lys Arg Ala
 35 40 45
 Glu Pro Asp Ser Asp Ile Glu Ala Leu Gly Asp Lys Ile Gly Met Gln
 50 55 60
 Arg Gly Arg Asp Met Pro His Ala Lys Val Arg Val Gln Leu Ala Lys
 65 70 75 80
 Phe Ser Gln Gln Arg His His His Leu Arg Ala Ile Phe Gly Arg Gly
 85 90 95
 Gly Asp Pro Gln Phe Ser Arg Gln Pro Gly Val Val Gly Ala Asn Val
 100 105 110
 Ile Leu Gln Ser Leu Cys Ile Pro
 115 120

<210> 11225
 <211> 139
 <212> PRT
 <213> Enterobacter cloacae

<400> 11225
 Gln His Ala Val Thr Cys Ala Thr Ala Thr Gly Ala Thr Met Thr His
 1 5 10 15
 Phe Glu Gln Glu Ile Leu Asp Ile His Val Ala Leu Glu Asn Trp Leu
 20 25 30
 Gly Ala Gly Glu Gly Asn Arg Asp Ala Leu Leu Ala Arg Phe Arg Pro
 35 40 45
 Asp Phe Leu Met Val Pro Pro Ser Gly Asn Pro Leu Asp His His Ala
 50 55 60
 Leu Ala Gln Phe Leu Tyr Ala Gln Arg Gly Thr Arg Pro Gly Leu Arg
 65 70 75 80
 Ile Gly Ile Asp Ala Leu Thr Thr Leu Gln Thr Trp Asp Asn Gly Ala
 85 90 95
 Val Leu His Tyr Arg Glu Thr Gln Thr Arg Pro Gly Gln Pro Val Asn
 100 105 110
 Val Arg Trp Ser Thr Ala Val Leu Asn Gln Glu Gly Asp Asn Ile Thr
 115 120 125
 Trp Arg Leu Leu His Glu Thr Ala Gln Pro
 130 135

<210> 11226
 <211> 80
 <212> PRT
 <213> Enterobacter cloacae

<400> 11226
 Val Asn Val Cys Leu Val Glu Tyr Arg Glu Tyr Val Lys Gly Gly Lys
 1 5 10 15
 Arg Lys Met Leu Asp Phe Thr Cys Cys Val Met Phe Phe Asn Tyr Trp
 20 25 30
 Leu Thr Lys Ala Pro Gly Ser Ala Thr Leu Thr Arg Pro Ala Leu His
 35 40 45

Phe Pro Leu Ser Leu Trp Glu Arg Val Gly Val Arg Ala Ser Ala Arg
 50 55 60
 Thr Glu Arg Cys Thr Lys Pro Ala Ala Ser Tyr Arg Ala Gly Gly
 65 70 75 80

<210> 11227

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 11227

Ala Gln Arg Ala Phe Ser Ser Trp Val Lys Ser Ser Ile Gln Cys Ser
 1 5 10 15
 Trp Lys Ser Val Asn Val Thr Pro Val Ile Arg Glu Ile Gln His Gly
 20 25 30
 Asp Ile Val Met Ile Ser Leu Trp Ser Leu Ala Asp Thr Leu Met Cys
 35 40 45
 Gly Gln His Cys Ser Leu Leu Ile Gly Trp Leu Ala Ser Thr Asn Leu
 50 55 60
 Gln Asn Asn Glu Val Asn Pro Ile Val Thr Lys Pro Asp Val Leu Arg
 65 70 75 80
 His Arg Ile

<210> 11228

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 11228

Ile Trp Cys Ala Ala Arg Ala Ala Leu Asn Leu Phe Gly Lys Met Ser
 1 5 10 15
 Leu Leu Ile Thr Tyr Thr Phe Phe Asn Ser Ala Val Leu Ala Ser Ser
 20 25 30
 Phe Ser Tyr Leu Phe Arg Leu Ser Val Ser Val Ile Phe Ile Phe Leu
 35 40 45
 Thr Glu Phe Trp Arg Tyr Lys Ile Val Ile Gln Tyr Asn Arg His His
 50 55 60
 Pro Ala Ala His Cys Leu Asn Ala Gln Leu Ser Asn Gly Ser Asn Thr
 65 70 75 80
 Leu Phe

<210> 11229

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 11229

Asn Ser Arg Leu Leu Thr Met Leu Lys Tyr Ala Glu His Pro Ser Asp
 1 5 10 15
 Val Leu Arg Leu Val Leu Glu His Gly Leu Arg Arg Asn Thr Met Glu
 20 25 30
 Gly Phe Tyr Asn Glu Ile Pro His His Pro Gly Ser Gly Pro Phe Phe
 35 40 45
 Phe Lys His Ser Phe Leu Arg Tyr Val Ser Leu Ser Gly Glu Arg Thr
 50 55 60
 Gly Tyr Pro Thr Arg Asn Gln Leu Cys Arg Lys Ala
 65 70 75

<210> 11230

<211> 161
 <212> PRT
 <213> Enterobacter cloacae

<400> 11230

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Leu Pro Arg Thr Gly Glu Ser Leu Trp Ser Gly Glu Ile Thr Gly Gly
1          5          10          15
Ala Met Ser Asp Arg Ile Phe Ala Gly Ile Trp Leu Leu Leu Cys Ile
          20          25          30
Gly Gly Met Phe Val Ala Trp Gln Ile His Ser Glu Tyr Ser Tyr Glu
          35          40          45
Pro Val Gly Pro Arg Pro Phe Pro Val Gly Ile Val Gly Leu Met Leu
          50          55          60
Leu Cys Ser Val Ala Leu Leu Leu Arg His Pro Asp Thr Val Glu Trp
65          70          75          80
Pro Pro Arg Arg Thr Leu Gln Arg Leu Leu Val Met Val Ile Val Leu
          85          90          95
Leu Met Tyr Ala Trp Gly Phe Glu Trp Leu Gly Phe Pro Ile Ala Thr
          100          105          110
Ala Leu Leu Thr Met Val Ile Gly Ile Leu Phe Asn Ala Ser Leu Pro
          115          120          125
Ala Ala Gly Ile Ser Gly Val Val Leu Gly Ile Leu Leu Trp Tyr Ala
          130          135          140
Phe Asp Arg Leu Leu Asp Val Thr Leu Pro Leu Gly Ala Trp Phe Asn
145          150          155          160

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<210> 11231
 <211> 69
 <212> PRT
 <213> Enterobacter cloacae

<400> 11231

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Lys Gln Cys Ser Ile Arg Ala Val Leu Ser Gly Met Ala Ala Ser Leu
1          5          10          15
Ile His Ile Pro Gln Cys Leu Leu Leu Thr His Ser Gly Arg Ile Phe
          20          25          30
His Thr Phe Leu Tyr Asn Leu Val Ser Lys Thr Ile Ser Ala Ala Leu
          35          40          45
Leu Leu Ser Lys Gln Phe Leu Asn Thr Leu Arg Asn Leu Asn Lys Tyr
          50          55          60
Phe Arg Pro Arg
65

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<210> 11232
 <211> 148
 <212> PRT
 <213> Enterobacter cloacae

<400> 11232

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Gly Ser Ala Met Lys Tyr Pro Ile Val Leu Val Leu Cys Ala Leu Thr
1          5          10          15
Val Pro Ala Ile Ala Ala Ser Thr Asp Trp Pro Ser Ala Leu His Gly
          20          25          30
Ile Ala Ser Gly Asp Thr His Trp Ile Glu Gln Ala Pro Thr Leu Ala
          35          40          45
Ala Thr Ala Asp Ala Arg Gln Ala Gln Leu Leu Glu Asp Ala Leu Ala
          50          55          60
Ala Ala Leu Thr Thr Asn Thr Ser Ala Thr Leu Lys Ala Leu Gln Thr
65          70          75          80

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Ile Asp Ala Gly Lys Trp Pro His Met Val Gly Ser Asp Ile Val Cys
 85 90 95
 Thr Pro Pro Leu Glu Lys Ser Pro Ala Glu Val Asp Ala Phe Tyr Gln
 100 105 110
 Arg Thr Arg Arg Ala Leu Leu Asp Thr Val Glu Gly Ala Gln Cys Leu
 115 120 125
 Trp Ile Leu Glu Ala Thr Met Glu Glu Leu Asn Ala Glu Lys Ala Arg
 130 135 140
 Gln Gly Lys
 145

<210> 11233

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 11233

Arg Gly Arg His Lys Val Cys Gly Val Val Arg Lys Arg Tyr Gly Val
 1 5 10 15
 Leu Leu Arg Asp Trp Pro Asp Gly Asp Gly Asp Gly Glu Leu Gln Leu
 20 25 30
 Val Ser Met Val Arg Ser Asp Pro Leu Thr Leu Thr Leu Ser Pro Lys
 35 40 45
 Gly Arg Gly Asp Asp Tyr Ala Leu Ala Pro Leu Gly Arg Gly Pro Gly
 50 55 60

65

<210> 11234

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 11234

His Phe Met Leu Val Val Ala Ser Leu Thr Pro Gly Gln Arg Met Arg
 1 5 10 15
 Pro Ala Asp Lys Arg His Asp Pro Met Ile Pro Pro Ser Ala Leu Val
 20 25 30
 Ile Thr Thr Val Asp Asp Arg Gly Arg Pro Phe Gly Leu Ala Ser Gly
 35 40 45
 Gln Leu Glu Thr Ala Arg Gly Leu Ala Gly Ser Val Ile Ser Ser Pro
 50 55 60

Pro Ser Pro Gly Cys

65

70

<210> 11235

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 11235

Met Ala Thr Thr Pro Gly Phe Ser Tyr Val His Ala Glu Glu Ser Ala
 1 5 10 15
 Val His His Leu Leu His Leu Gln Leu Pro Asp Ser Ala Asp Leu Phe
 20 25 30
 Glu Leu Ala Gly Thr Cys Ala Ala Tyr Val Ser Val Leu Val Glu Met
 35 40 45
 Asp Asp Ala Val Thr Phe Ser Thr Leu Cys Lys Gln Leu Leu Gly Cys
 50 55 60

65

<210> 11236
 <211> 151
 <212> PRT
 <213> Enterobacter cloacae

<400> 11236
 Ser Cys Ser Met Lys Lys Leu Pro Gly Ala Thr Trp Thr Val Thr Ser
 1 5 10 15
 Cys Ile Gln Ile Ala Gly Met Thr Val Arg Arg His Lys Glu Asn Val
 20 25 30
 Met Gly Trp Lys Tyr Glu Gln Ser Thr Gly Lys Met Tyr Lys Asp Gly
 35 40 45
 Lys Leu Ile Glu Thr Gly Tyr Ser Gly Ala Leu Thr Asn Lys Asn Asn
 50 55 60
 Pro Asp Arg Gln His Val Lys Gly Leu Gly Pro Leu Pro Arg Gly Thr
 65 70 75 80
 Tyr Lys Ile Ala Gly His Ser Asn Ser Lys Gly Pro Ile Thr Ile Ile
 85 90 95
 Leu Glu Gln Thr Ser Gly Glu Ser Phe Gly Arg Ser Glu Phe Arg Ile
 100 105 110
 His Gly Asp His Lys Tyr Gly Pro Ala Gly Phe Ala Ser Glu Gly Cys
 115 120 125
 Ile Ile Leu Ser Leu Ser Thr Arg Arg Lys Ile Leu Arg Asp Gly Gly
 130 135 140
 Glu Leu Glu Val Val Arg
 145 150

<210> 11237
 <211> 68
 <212> PRT
 <213> Enterobacter cloacae

<400> 11237
 Pro Leu Met Gln Ile Ala Leu His Ala Asn Ile Ile Arg Asp Glu Ile
 1 5 10 15
 Gln Cys Ser Asp Leu Ser Phe Met Arg Gln Ser Gly Arg Arg Ser Ser
 20 25 30
 His Cys Leu Arg Met Phe Ile Lys Lys Thr Gln Lys Thr Pro Ser Ala
 35 40 45
 Glu Leu Arg Leu Ala Leu Lys Arg Gln Gln Glu Met Leu Asp Glu Gln
 50 55 60
 Lys Asp Tyr
 65

<210> 11238
 <211> 78
 <212> PRT
 <213> Enterobacter cloacae

<400> 11238
 Thr Phe Leu Leu Asn Val Leu Gly Cys Tyr Arg His Lys Ile Thr Gly
 1 5 10 15
 Lys Ser Pro Leu Met Ile Leu Gln Ile Ile Thr Ile Cys Ile Ser Val
 20 25 30
 Val Asn Lys Phe Arg Trp Gly Thr Ser Gly Asn Glu Glu Gly Met Glu
 35 40 45
 Trp Val Ala Val Gly Asp Arg Arg Ala Ala Arg Arg Gly Gly Asn Val
 50 55 60
 Arg Ala Asp Val Pro Ala Gly Arg Tyr Ser Gly Lys Val
 65 70 75

<210> 11239
 <211> 86
 <212> PRT
 <213> Enterobacter cloacae

<400> 11239
 Asn Gly Met Arg Arg Glu Leu Leu Phe Phe Thr His His Leu Lys Ile
 1 5 10 15
 Val Ile His Arg Ile Ala Gly Tyr Ala Gln Gly Leu Arg Arg Val Leu
 20 25 30
 Asp Ala Thr Pro His Phe Glu Asn Ala Phe Ser Val His Phe Ser Asp
 35 40 45
 Tyr Phe Lys Pro Leu Arg Phe Leu Tyr Leu Phe Ala Arg Asn Arg Met
 50 55 60
 Phe Ile Asp Asp Phe Leu Asp Arg Leu Leu Asn Asp Ala Ala Gln Val
 65 70 75 80
 His Ile Leu Arg Val
 85

<210> 11240
 <211> 124
 <212> PRT
 <213> Enterobacter cloacae

<400> 11240
 Tyr Leu Arg Ile Lys Met Lys Phe Leu Thr Leu Ile Val Ala Ile Thr
 1 5 10 15
 Leu Leu Thr Ala Cys Gln Leu Val Arg Pro Phe Gly Glu Ala Thr Thr
 20 25 30
 Tyr Lys Pro Phe Thr Val Ser Ala His Pro Gly Leu Glu Gly Arg Tyr
 35 40 45
 His Cys Met Arg Ser Ala Leu Asp Ala Glu Gly Tyr Glu Val Glu His
 50 55 60
 Ile Phe Pro Glu Arg Asp Thr Pro Asn Phe Phe Asp Ile Ser Arg Gly
 65 70 75 80
 Ser Arg Leu Ile Ala Gln Val Asp Met Ser His Thr Thr Gly Ala Asn
 85 90 95
 Phe Leu Asp Ile Thr Leu Ile Ser Gly Ser Lys Gln Thr Asn Glu Asp
 100 105 110
 Leu Ala Arg Val Ile Ala His Cys Val Ser Arg
 115 120

<210> 11241
 <211> 308
 <212> PRT
 <213> Enterobacter cloacae

<400> 11241
 Thr Gly Thr Ser Ser Cys Leu Tyr Trp Tyr Trp His Tyr His Ala Gly
 1 5 10 15
 Asp Val Met Ala Leu Met Ser Glu Pro Val Thr Ser Leu Gln Asp Asp
 20 25 30
 Thr Arg Lys Gln Leu Gly Ala Phe Leu Arg Ala Arg Arg Glu Ser Leu
 35 40 45
 Asp Pro Gln Arg Leu Gly Leu Pro Arg Ser Gly Arg Arg Thr Pro
 50 55 60
 Gly Leu Arg Arg Glu Glu Val Ala Met Leu Ala Asp Val Gly Val Thr
 65 70 75 80
 Trp Tyr Thr Trp Leu Glu Gln Gly Arg Glu Val Asn Pro Ser Ser Ala
 85 90 95

Val Met Ala Ala Ile Ala Lys Ala Leu Gln Cys Thr Pro Thr Glu Ala
 100 105 110
 Arg His Leu Phe Val Leu Ala Gly Leu Pro Pro Gly Glu Ala Pro Gln
 115 120 125
 Ala Val Cys Cys Glu Gly Ile Ser Glu Gly Thr Arg Arg Leu Leu Asp
 130 135 140
 Thr Leu Met Pro Lys Pro Ala Ser Ile Gln Lys Pro Asn Phe Asp Ile
 145 150 155 160
 Val Ala Trp Asn Asp Ser Phe Gly His Leu Met Gly Val Asp Phe Asn
 165 170 175
 Ala Ile Pro Pro Glu Asp Arg Asn Cys Ile Tyr Leu Phe Leu Thr His
 180 185 190
 Pro Ala Trp Arg Ala Arg Leu Gly Lys Arg Asp Asp Val Leu Pro Ile
 195 200 205
 Phe Val Ser Tyr Phe Arg Ala Ala Met Ala Glu His Arg Gly Asp Pro
 210 215 220
 Leu Trp Glu Ala Lys Leu Ala Arg Phe Phe Ala Val Ser Glu Glu Phe
 225 230 235 240
 Lys Thr Leu Trp His Gln Arg Asn Asp Val Arg Gly Val Glu Asn Gln
 245 250 255
 Leu Lys Leu Phe Thr His Pro Glu Leu Gly Asp Phe His Leu Gln Gln
 260 265 270
 Met Tyr Trp Tyr Ser Ala Pro Arg Asn Gly Ser Arg Leu Leu Val Tyr
 275 280 285
 Leu Pro Val Asp Glu Ala Gly Glu Arg Ala Met Ala Trp Leu Ala Glu
 290 295 300
 Gln Gly Ile
 305

<210> 11242

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 11242

Arg Arg Asn His Pro Ile Tyr Asn Glu Cys Leu Leu Thr His Asn Ala
 1 5 10 15
 Lys Ala Val Val Pro Gly His Asn Gly Arg Phe Val Leu Ala Lys His
 20 25 30
 Thr Trp Asn Asp Pro Leu Ile Gln Leu Ala Lys Ala Ser Lys Asp Lys
 35 40 45
 Asn Tyr Arg Leu Leu Thr Pro Glu Leu Gly Glu Pro Val Arg Val Ser
 50 55 60
 Asp Thr Thr Gln Gln Phe Arg Glu Trp Trp Glu
 65 70 75

<210> 11243

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 11243

Lys Gln Ala Leu Thr Pro Val Ser Ser Gln Pro Asp Phe Leu His Glu
 1 5 10 15
 Thr Pro Ile Ala Lys Val Ala Leu Thr His Ile Phe His Ser Thr Ile
 20 25 30
 Asp Cys Tyr Asn Ser Ile Phe Leu Thr Leu Trp Gln Phe Tyr Tyr Ser
 35 40 45
 Ser Thr Met Leu Ile Ser Pro His Ser His Ser Trp Gly Phe Leu
 50 55 60

<210> 11244

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 11244

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Ser Val Ala Arg Val Leu Pro Arg Gln Asn Ser Ala Asp Asn Glu Val
1          5          10          15
Pro Tyr Gln Lys Arg Leu Lys Pro Ala Trp Ile Leu Tyr Trp Asn Ser
          20          25          30
Leu Leu Asn Arg Val Asn Ile Tyr Leu Thr Phe Ile Asn Lys Val Glu
          35          40          45
Glu Asp Gly His Asp Asp Ala Phe Ile Cys Met Arg Leu
          50          55          60

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<210> 11245

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 11245

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Leu Thr Ala Asn Ala Phe Ala Val Thr Phe Lys Asn Met His Ile Val
1          5          10          15
Ile His Ala Val Glu Pro Ser Arg Ala Gln Val Gly Ala Val Thr Thr
          20          25          30
Met Gln Thr Ala Val Gly Met Glu Lys Asn Ile Pro Phe Gly Ser Leu
          35          40          45
Ser Phe Arg Ile Cys Ala Pro Gly Thr Thr His Leu Ala Ala Phe Lys
          50          55          60
Lys Asp Asp Ala Ala Asp Thr Arg Pro Val Met
          65          70          75

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<210> 11246

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 11246

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Thr Pro Ile Ser Leu Pro Ser Thr Leu Pro Leu Lys Gly Lys Ser Ser
1          5          10          15
Cys Thr Cys Ser Ala Ser His Thr Pro Ile Gln Leu Ile Thr Ile Leu
          20          25          30
Gln Ala Phe Val Ser Tyr Met Lys Leu Cys Phe Leu Phe Asn Thr Val
          35          40          45
Asn Ile Lys Ala Met Asn Val Ser Ser Ser Asp Asn Val Thr Asn Leu
          50          55          60
Leu Ile Asp Gln Gln Leu Ile Asn
          65          70

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<210> 11247

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 11247

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Ala Glu Asn Asp Gly Ser Leu Ser Gly Ile Thr Ser Thr Ala Ala Ser
1          5          10          15
Ala Glu Thr Asp His Lys Pro Lys Leu Lys Val His Cys Leu Thr Arg
          20          25          30
Leu Glu Val Ala Thr Arg Cys Val His Arg Ala Leu Ile Leu Tyr Glu
          35          40          45

```

Pro Arg Ala Ala Phe Tyr Thr Glu Lys Val Ala Lys Lys Gln Asn Lys
 50 55 60
 Asn Ala Gln Val Ala Ser Val Val Arg Lys Asn Phe Gln Gln Arg Phe
 65 70 75 80
 Gln Arg Asn Glu Arg
 85

<210> 11248

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 11248

Lys Ser Cys Leu Leu Val Arg Met Phe Gly Lys Arg Ala Leu Ser Lys
 1 5 10 15
 Val Lys Ala Ser Met Gln Ala Trp Glu Arg Ser Gly Leu Gln Gln Ile
 20 25 30
 Asp Ala Val Leu Gln Ser Ala Ser Leu Ile Lys Arg Ile Asp Asp His
 35 40 45
 Ala Ser Leu Ser Ile Phe Ser Pro Gly Ala Gly Leu Val Arg Gln Ile
 50 55 60
 Arg Ala
 65

<210> 11249

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 11249

Ala Val His Ser Val Lys Lys Val Arg Ile Cys Gly Pro Phe Phe Met
 1 5 10 15
 Leu Phe Gln Tyr Pro Ala Ile Pro Asp Phe Val Ile Cys Leu Ala Lys
 20 25 30
 Pro Val Leu Phe Val Tyr Pro Leu Leu Thr Cys Leu Ser Pro Trp Gly
 35 40 45
 Met Asp Phe Val Phe Trp Phe Asn Lys Arg Lys Asn Lys Trp Asn Asn
 50 55 60
 Leu Met Leu
 65

<210> 11250

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 11250

Gly Asp Arg Gly Met Ser Asp Thr Leu Asn Tyr Asn Pro Ala Leu Pro
 1 5 10 15
 Glu Ser Arg Gln Phe Thr Pro Pro Ala Glu Gly Gly Asn Gly Ala Ile
 20 25 30
 His Lys Pro Gly Asp Tyr Thr Asn Leu Ile Trp Gln Thr Arg Ser Arg
 35 40 45
 Glu Pro Glu Ser Trp Glu Val Lys Leu Ile Ala Thr Leu Glu Asp Leu
 50 55 60
 Phe Glu Gln Gly Val Glu Thr Leu Pro Glu Leu Val Ser Gly Leu Asn
 65 70 75 80
 Ala Val Arg Met His Asp Gln Gln Gly Glu Pro Trp Ser Asp Ala Ser
 85 90 95
 Phe Arg Ala Phe Leu Gln Val Asn Gly Tyr
 100 105

<210> 11251
 <211> 314
 <212> PRT
 <213> Enterobacter cloacae

<400> 11251
 Ile Gln Glu Cys Glu Met Thr Asn Thr Gly Phe Ile Ile Gly Ala Tyr
 1 5 10 15
 Pro Cys Ala Pro Ser Phe His Gln Lys Gly Glu Gln Glu Tyr Thr
 20 25 30
 Phe Trp Arg Glu Leu Ser Asp Thr Pro Asn Ile Arg Gly Leu Glu Gln
 35 40 45
 Pro Cys Leu Glu Asn Leu His Pro Phe Gly Asp Glu Trp Leu Phe Arg
 50 55 60
 His Thr Pro Gly Asn Trp Gln Ile Val Val Thr Ala Val Met Glu Thr
 65 70 75 80
 Met Arg Arg Arg Gly Ser Asn Gly Ala Phe Gly Leu Ala Ser Ala Asp
 85 90 95
 Glu Glu Gln Arg Lys Ala Cys Ile Glu Tyr Tyr Arg His Leu His Gln
 100 105 110
 Lys Ile Asp Ala Val Asn Thr Arg Phe Pro Gly Lys Val Val Ala Leu
 115 120 125
 Glu Met Gln Ala Ala Pro Gln Ala Gly Asn Glu Ser Val Glu Gln Ala
 130 135 140
 Thr Glu Ala Phe Ser Arg Ser Val Arg Glu Ile Ala Ser Trp Asp Trp
 145 150 155 160
 Gly Cys Asp Leu Val Leu Glu His Cys Asp Ala Met Asn Gly Pro Ala
 165 170 175
 Pro Arg Lys Gly Phe Leu Pro Leu Glu Gln Val Leu Glu Val Val Lys
 180 185 190
 Glu Thr Asp Ile Ser Val Cys Ile Asn Trp Ala Arg Ser Ala Ile Glu
 195 200 205
 Gly Arg Asn Thr Ala Leu Pro Leu Glu His Val Gln Ala Ala Leu Ala
 210 215 220
 Ala Gly Lys Leu Gly Ala Leu Met Phe Ser Gly Thr Thr Pro His Gly
 225 230 235 240
 Glu Tyr Gly Glu Trp Gln Asp Leu His Ala Pro Phe Ser Ser Phe Cys
 245 250 255
 Ala Asp Ser Leu Met Ser Ile Glu His Val Lys Ala Leu Phe Thr Ala
 260 265 270
 Ala Ser Ala Ala Thr Leu Lys Phe Ser Gly Ile Lys Leu Leu Glu Ile
 275 280 285
 Asn Ala Asn Ala Asp Val Ser His Arg Ile Ala Ile Leu Arg Asp Gly
 290 295 300
 Ile Ser Ala Met Asn Lys Ala Ser Gln
 305 310

<210> 11252
 <211> 111
 <212> PRT
 <213> Enterobacter cloacae

<400> 11252
 Gln Pro Leu Thr Arg Ala Val Ile Lys Met Met Met Lys Arg Gly Val
 1 5 10 15
 Ser Leu Phe Leu Leu Leu Leu Thr Gly Cys Ser Ala Ser Glu Glu
 20 25 30
 Ile Pro Val Gln Lys Ala Gln Gln Gly Lys Met Ser Pro Glu Arg Ser
 35 40 45
 Leu Asn Met Glu Gln Leu Cys Arg Asp Gln Ala Ala His Arg Tyr Asn

50		55		60	
Ser	Glu	Ala	Gln	Lys	Ile
65					70
Ser	Tyr	Glu	Leu	Lys	Gly
				85	
Ser	Phe	Asp	Ala	Asp	Gly
			100		105

<210> 11253
 <211> 75
 <212> PRT
 <213> Enterobacter cloacae

<400> 11253	
Arg	Lys
1	5
Arg	Asn
	20
His	Ile
	35
Leu	Glu
	50
Asp	His
65	70

<210> 11254
 <211> 159
 <212> PRT
 <213> Enterobacter cloacae

<400> 11254	
Ala	Pro
1	5
Arg	Pro
	20
Leu	Gln
	35
Ala	Asp
	50
Glu	Asp
65	70
Leu	Val
	85
Arg	Asp
	100
Glu	Leu
	115
Leu	Ala
	130
Ala	Thr
145	150

<210> 11255
 <211> 139
 <212> PRT
 <213> Enterobacter cloacae

<400> 11255	
Arg	Arg
1	5
Ala	Gly
	10
Ala	Gly
	15
Ala	Gly
	20
Ala	Gly
	25
Ala	Gly
	30
Ala	Gly
	35
Ala	Gly
	40
Ala	Gly
	45
Ala	Gly
	50
Ala	Gly
	55
Ala	Gly
	60
Ala	Gly
	65
Ala	Gly
	70
Ala	Gly
	75
Ala	Gly
	80
Ala	Gly
	85
Ala	Gly
	90
Ala	Gly
	95
Ala	Gly
	100
Ala	Gly
	105
Ala	Gly
	110
Ala	Gly
	115
Ala	Gly
	120
Ala	Gly
	125
Ala	Gly
	130
Ala	Gly
	135
Ala	Gly
	140
Ala	Gly
	145
Ala	Gly
	150
Ala	Gly
	155

```

      20      25      30
Glu Asn Met Thr Val Phe Ile Leu Gly Ile Ala Ile Leu Ser Ala Gly
      35      40      45
Thr Tyr Leu Met Arg Leu Gly Gly Ala Lys Leu Gly Asn Arg Leu Ala
      50      55      60
Leu Ser Glu Arg Ser Gln Ala Leu Leu Ser Asp Ala Ala Thr Val Leu
      65      70      75      80
Leu Phe Ser Val Ala Leu Ala Thr Thr Phe Tyr Glu Gly Asp His Phe
      85      90      95
Ala Gly Met Ala Arg Val Leu Gly Val Gly Phe Ala Val Phe Leu Ala
      100      105      110
Trp Arg Lys Met Pro Leu Ile Val Val Ile Val Ala Ala Val Val
      115      120      125
Thr Ala Leu Leu Arg Leu Ala Gly Ile Asn
      130      135

```

<210> 11256

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 11256

```

Arg Asn Asp Ser Thr His Asn His Tyr Leu Met Gln Lys Arg Ala Leu
1      5      10      15
Trp Arg Glu Asn Ala His Phe Ile Asp Thr Asp His Thr Phe Arg Phe
      20      25      30
Arg Tyr Phe Ser Phe Val Leu Val Asn Asp Lys Leu Thr Leu Cys Leu
      35      40      45
Gln Gly Ile Val Thr Val Thr Gly Gly His Ala Asn Asn Lys His Tyr
      50      55      60
Ser Phe Ala Gly Phe Arg Leu
      65      70

```

<210> 11257

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 11257

```

Pro Tyr Lys Asn Tyr Gly Ile Asp Asn His Phe Gln Tyr His Leu Ile
1      5      10      15
Asn Tyr Asn Glu Pro Thr Ala Tyr Ala Ala Leu Thr Ala Val Pro Pro
      20      25      30
Asp Asn Asn Gly Glu Asp Tyr Glu Leu Tyr Thr Ala Ile Pro Ala Val
      35      40      45
Cys Leu Arg Arg Thr Gly Thr Ala Phe Arg Gln Ala Asp Asp Gly Asn
      50      55      60
Pro Ser His
      65

```

<210> 11258

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 11258

```

Arg Ser Val Ser Pro Ser Ala Val Ser Gly Gly Ile Ile His Gln Leu
1      5      10      15
Asp Gln Asn Asp Ala Glu Ala Ala Asp Lys Arg Gln Asp Arg Glu Gln
      20      25      30
Phe Ala Glu Ile Met Gly Glu Ile Val Pro Ala Glu Ser Arg Pro Gly

```

```
<210> 11259
<211> 67
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 11260
<211> 69
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 11261
<211> 70
<212> PRT
<213> Enterobacter cloacae
```

```

<400> 11261
Ile Arg Leu Val Leu Ile Met Ala Ser Ile Ser Thr Ile Cys Pro Thr
1          5          10          15
Val Pro Glu Lys Tyr Asp Ser Tyr Phe Phe Ile Gly Glu Phe Arg Gly
          20          25          30
Leu Gly Glu Gly Met Ser Gly Gly Ala Ala Leu Thr Thr Thr Tyr Gly
          35          40          45
Thr Val Gly Pro Cys Lys Arg Ser Ala Ala Gly Gln Phe Lys Gln Thr
          50          55          60
Thr Pro Ser Ala Ala

```

65

70

<210> 11262

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 11262

```

Leu Val Arg Lys Ile Gly Ala Ile Leu Thr Val Gln Ala Asn Val Cys
1           5           10           15
Glu Pro Ile Leu Gly Val Gly Ile Phe Phe Ser Val Arg Pro Val Gln
          20           25           30
Gly Asn Lys Leu Asp Ser Val His Glu Asn Glu Thr Gly Phe Gly Asp
          35           40           45
Leu Leu Ala Thr Ala Ile Pro Phe Ala His His Gln Thr Glu Thr Gly
          50           55           60
Phe Cys Asn Cys Phe Cys Arg Lys
65           70

```

<210> 11263

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 11263

```

Gly Lys Asp Arg Asn Ala Gly Met Lys Met Ala Leu Ala Gln Arg Val
1           5           10           15
Leu Leu Pro Val Val Arg His His Thr Gly Asn Phe Ala Gly Ala Thr
          20           25           30
Thr Asp Thr Leu Leu Ser Val Gly His Asn Lys Thr Ile His Asn Asn
          35           40           45
Thr Cys Phe Trp Phe Asn Asn Leu Ile Leu Ser Ile Val Ile Val Phe
          50           55           60
Thr His Ser Ser Met Ala Thr Gln Cys Ser Asn Ala Gln Glu Gly Glu
65           70           75           80
Leu Phe Pro Val Asn Leu Trp Gln Ile Asn Leu Ile Gln Glu Ala Asp
          85           90           95
Glu

```

<210> 11264

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 11264

```

Arg Leu Thr Gly Ser Ser Gly Phe Asp Ser Thr Pro Arg Thr Phe Asp
1           5           10           15
Gln Pro Arg Leu Lys Lys Leu Leu Gln Leu Ala Tyr Leu Gln Ala Asp
          20           25           30
Gly Gly Leu Gly Asn Thr His Tyr Ile Cys Cys Arg Arg Lys Ala Ala
          35           40           45
Ala Leu Asn Asp Gln Thr Lys Ser Gly Glu Val Ser Gln Ile Glu Arg
          50           55           60
Arg His Ala Lys Phe Leu Leu
65           70

```

<210> 11265

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 11265

Gly Glu Thr Gln Met Ile Arg Arg Tyr Phe Leu Leu Pro Val Phe Ala
 1 5 10 15
 Leu Thr Ser Phe Ala Gly Ala Leu Ala Ala Pro Leu Asp Gly Leu Ser
 20 25 30
 Ala Ala Asp Val Asn Gly Pro Ala Ala Val Ala Pro Gln Glu Lys Pro
 35 40 45
 Gln Pro Pro Ala Lys Leu Ile Val Asp Pro Pro Leu Ala Gly Pro Leu
 50 55 60
 Ser Lys Gly Ala Val Phe Ile Gln Tyr Arg Val Glu Asn Leu Arg Ile
 65 70 75 80
 Glu Pro Val Phe Gly Pro Asp Ala Leu Lys Val Thr Pro Arg Ile Gly
 85 90 95
 His Ile His Val Val Val Asp Asp Ala Pro Trp His Trp Ala Asp Thr
 100 105 110
 Ser Gly Glu Pro Val Ile Leu Val Gly Leu Pro Ala Gly Lys His Lys
 115 120 125
 Val Thr Ile Ile Val Ala Asp Pro Thr His Lys Pro Ile Asp His Lys
 130 135 140
 Thr Val Glu Phe Thr Val Pro Pro His Ala Ala Val His His Phe
 145 150 155 160

<210> 11266

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 11266

Val Tyr Trp Gln Phe Lys Gln Gly Gly Gln Leu Cys Leu Lys Asp Glu
 1 5 10 15
 Arg Leu Phe Ser Leu Gln Leu Phe Val Glu Leu Trp Arg Ile Val Asn
 20 25 30
 Pro Glu Lys Phe Arg Met Cys Tyr Ile Pro Leu Lys Asp Ile Ser Ser
 35 40 45
 Lys Ile Leu Asn Ile Lys Ser Thr Lys Glu Gln Lys Asp Ser Leu Trp
 50 55 60
 Leu
 65

<210> 11267

<211> 283

<212> PRT

<213> Enterobacter cloacae

<400> 11267

Pro Ser Ser Leu Leu Thr Arg Arg Ile Ser Pro Ser Thr Ile Lys Pro
 1 5 10 15
 Leu Ser Ser Pro Cys Arg His Thr Pro Arg Phe Ile Thr Phe Lys Glu
 20 25 30
 Pro Val Met Lys Ala Leu Ser Val Leu Thr Ala Ala Leu Leu Ala Val
 35 40 45
 Ser Thr Ser Ala Leu Ala Glu Thr Lys Ala Ser Val Val Leu Val His
 50 55 60
 Gly Ala Phe Ala Asp Gly Ser Ser Trp Asn Lys Val Ile Thr Arg Leu
 65 70 75 80
 Gln Lys His His Asn Glu Val Ile Ala Val Gln Leu Pro Leu Thr Ser
 85 90 95
 Leu Lys Asp Asp Val Ala Ala Thr Gln Arg Ala Ile Ala Arg Ala His
 100 105 110
 Gly Asp Val Val Leu Val Gly His Ser Trp Gly Gly Ser Val Ile Ser

```

      115              120              125
Glu Ala Gly Asn Asn Ala Arg Val Lys Ser Leu Val Tyr Val Ala Ala
 130              135              140
Phe Ala Pro Asp Ser Gly Gln Ser Thr Ala Asp Leu Ala Asp Ser Tyr
145              150              155              160
Pro Ala Pro Pro Gly Ser Ala Ser Leu Ala Lys Thr Ser Glu Gly Tyr
      165              170              175
Leu Tyr Leu Pro Thr Lys Ala Val Ser Glu Asn Phe Ala Pro Asp Val
      180              185              190
Lys Asp Val Glu Arg Ser Val Ile Ala Ala Thr Gln Ser Pro Ile Lys
      195              200              205
Ala Asp Ala Phe Gly Glu Lys Val Ala His Ala Ala Trp His Asp Lys
      210              215              220
Pro Ser Trp Tyr Val Ile Ser Lys Asn Asp Arg Met Ile Asn Pro Glu
225              230              235              240
Leu Glu Arg Ala Met Ala Lys Lys Ile Asn Ala Asn Thr Thr Glu Val
      245              250              255
Ala Ala Ser His Val Ser Met Val Ser Gln Pro Asp Val Val Thr Arg
      260              265              270
Thr Ile Glu Gln Ala Leu Ser Gly Gln Gln
      275              280

```

<210> 11268

<211> 411

<212> PRT

<213> Enterobacter cloacae

<400> 11268

```

Ser His Cys Pro Arg Pro Arg Gln Arg His Pro Tyr His Arg Cys Ile
1      5      10      15
Arg Leu Leu Lys Gly Glu Met Met Lys Thr Ile His Leu Thr Gln Gly
      20      25      30
Gln Ala Arg Thr Arg Leu Ile Ala Pro Asp Asp Met Val Ser Cys Asn
      35      40      45
Leu Ala Phe Ile Asp Cys Lys Leu Pro Gly Ser His Leu Lys Gln Asn
      50      55      60
Tyr Ser Phe Ile Gly Pro Gly Val Thr Gln Ser Ser Glu Gln Val Val
65      70      75      80
Asn Ile Pro Glu Pro His Gly Phe Asn Ile Gly Ala Ala Ala Met Pro
      85      90      95
Lys Gly Val Thr Asn Asn Leu His Leu His Phe Thr Ala Glu Val Phe
      100     105     110
Leu Ile His Glu Gly Thr Trp Arg Phe Arg Trp Gly Ala Asn Gly Glu
      115     120     125
His Glu Ala Glu Phe Ser Ala Pro Thr Ile Leu Ser Ile Pro Thr Trp
      130     135     140
Ile Phe Arg Gly Phe Thr Asn Val Ser Lys Glu Asp Thr Cys Gly Met
145     150     155     160
Val Phe Thr Val Leu Gly Gly Asp Asn Thr Gly Gly Ile Ile Trp His
      165     170     175
Pro Ser Val Leu Ala Thr Ala Ser Glu Tyr Gly Met Tyr Leu Ser Lys
      180     185     190
Asp Asn Met Leu Ile Ala Gln Glu Pro Gly Glu Pro Thr Pro Asp Pro
      195     200     205
Ala Ala Leu Leu Thr Pro Leu Ser Glu Gln Tyr Ile Ala Ser Leu Arg
      210     215     220
Asp Tyr Ser Val Glu Glu Met Arg Gln Arg Ala Val Thr Gly Asp Asp
225     230     235     240
Arg Arg Trp Ser Ala Gln Gly Leu Leu Asp Ser Val Leu Pro Gly His
      245     250     255
Gly Gly Glu Ile Ala Pro Val Ile Gly Phe Gly Ile Ser Gln Asp Arg

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<210> 11269
<211> 201
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 11270
<211> 478
<212> PRT
<213> Enterobacter cloacae
```

<400> 11270
Tyr Gly Arg Ala Cys Glu Thr Ala Ala Gly Asp Arg Thr Met Leu Lys
1 5 10 15

Thr Leu Ala Arg Trp Leu Ala Ala Val Leu Ile Leu Ile Ala
 20 25 30
 Phe Ala Leu Phe Ser Cys Glu Ser Ala Gly Trp Arg Trp Leu Thr Lys
 35 40 45
 Gly Gly Trp His Thr Thr Ala Arg Ile Ser Ser Leu Thr Pro Gln Glu
 50 55 60
 Arg Glu Trp Ala Gly Ile Ala Trp Arg Tyr Phe Glu Asn Asn Thr Gln
 65 70 75 80
 Pro Gln Thr Gly Leu Val Asn Gly Ser Asp Lys Gln Pro Arg Val Thr
 85 90 95
 Leu Trp Gln Met Gly Asp Thr Leu Ile Ala Leu Leu Ala Ala Arg Glu
 100 105 110
 Leu Gly Leu Ile Gln Ala Ala Glu Phe Asp Ala Arg Leu Thr Arg Leu
 115 120 125
 Leu Gly Thr Leu Asn Arg Leu Thr Leu Thr Glu Thr Arg Thr Pro Gly
 130 135 140
 Arg Leu Tyr Ser Ser Arg Thr Ala Thr Pro Ile Asp Phe Thr Gly Lys
 145 150 155 160
 Pro Ala Gln Arg Gly Trp Ser Ala Lys Asp Met Ala Arg Leu Met Leu
 165 170 175
 Ala Leu Arg Leu Thr Ala Glu Arg Ala Pro Glu Tyr Arg Glu Tyr Leu
 180 185 190
 Glu Lys Ile Ile Leu Arg Trp Asn Phe Cys Pro Val Met Asp Lys Asp
 195 200 205
 Gly Glu Leu Trp Ser Ala Ser Glu Gln Asn Glu Gln Leu Leu Val Arg
 210 215 220
 Asp Glu Leu Arg Leu Gly Glu Ser Glu Tyr Ala Ala Ser Ala Phe Arg
 225 230 235 240
 Leu Trp Gly Phe Pro Ala Gly Lys Ala Phe Ser Pro Pro Ser Gln Asn
 245 250 255
 Val Ile Met Tyr Gln Arg Ser Leu Ala Val Asp Ala Arg Asp Pro Arg
 260 265 270
 Thr Thr Trp Gln Pro Ser Leu Leu Ser Thr Leu Pro Ala Met Leu Pro
 275 280 285
 Gly Leu Glu Phe Gly Trp Gln Pro Pro Gly Val Ala Ser Asp Ile His
 290 295 300
 Lys Thr Leu Arg Ala Arg Ala Glu Ala Val Trp Leu Ser Gln Lys Thr
 305 310 315 320
 Arg Trp Glu Arg Glu Arg Ala Leu Thr Ala Arg Ala Asp Phe Tyr Leu
 325 330 335
 Ser Gln Ala Pro Trp His Val Glu Asp Thr Val Trp Gly Asn Gly Tyr
 340 345 350
 Ala Trp Asn Thr Leu Gly Asp Asp Gly Lys Ser Tyr Pro Arg Leu Ala
 355 360 365
 Gln Val Thr Thr Lys Ala Val Phe Met Leu Trp Thr Leu Trp Glu Asn
 370 375 380
 Glu Tyr Thr Asp Ala Leu Met Ala Ile Thr Arg His Leu Asn Asn Pro
 385 390 395 400
 Gln Gln Gly Trp Phe Glu Gly Arg Val Glu Ala Thr Gly Asp Ile Asn
 405 410 415
 Pro Thr Leu Thr Leu Ser Thr Asn Ala Met Val Leu Glu Ala Leu Leu
 420 425 430
 Tyr Lys His Asn Ala Gly Pro Leu Phe Glu Asn Gly Leu Val Lys Asn
 435 440 445
 Asp Gly Tyr Phe Ala Arg Arg Thr Ser Asp Pro Phe Asn Pro Pro Gly
 450 455 460
 Leu Cys Leu Pro Gly Glu Arg Ala Leu Arg Ala Ala Pro
 465 470 475

<210> 11271

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 11271

Gly	Gly	Ala	Met	Phe	Ser	Val	Gly	Asp	Tyr	Val	Gln	Pro	Arg	Gln	Gly
1				5					10					15	
Gly	Pro	Lys	Leu	Lys	Val	Leu	Glu	Val	Asn	Gly	Glu	Asn	Ile	Val	Ala
			20					25					30		
Val	Gln	Ala	Ser	Asp	Glu	Gln	Ser	Glu	Lys	Tyr	His	Leu	Lys	Ala	Ala
		35					40					45			
Asp	Val	Val	Leu	Tyr	Ser	Glu	Gly	Asp	Phe	Gly	Val	Cys			
	50					55				60					

<210> 11272

<211> 555

<212> PRT

<213> Enterobacter cloacae

<400> 11272

Cys	Arg	Tyr	Gln	Cys	Gly	Arg	Pro	Arg	Lys	Pro	Gly	Val	His	Cys	Pro
1				5					10					15	
Arg	Ser	Asp	Ala	Leu	Ser	Gly	Leu	Pro	Trp	Pro	Arg	His	Ser	Pro	Asn
			20					25					30		
Leu	Phe	Ser	Arg	Ser	Glu	Ala	Met	Lys	Leu	Lys	Ser	Ile	Leu	Phe	Phe
		35					40					45			
Pro	Leu	Leu	Ala	Gly	Leu	Val	Ala	Cys	Trp	Leu	Ser	Leu	Ser	Ala	Ala
	50					55				60					
Gln	Ala	Ala	Ala	Gly	Leu	Pro	Ala	Ser	Asp	Tyr	Pro	Pro	Arg	Ser	Gly
65					70				75					80	
Glu	Leu	Thr	Pro	Arg	Glu	Met	Thr	Ile	Ala	Lys	Asn	Ala	Trp	Gln	Tyr
			85					90						95	
Phe	Val	Ala	Asn	Tyr	Gln	Pro	Thr	Thr	Gly	Leu	Val	Asn	Ala	Val	Asn
			100				105						110		
Lys	Tyr	Pro	Ser	Thr	Thr	Met	Trp	Asp	Ser	Ala	Ser	Tyr	Met	Ala	Ala
		115					120					125			
Met	Thr	Ala	Ala	Arg	Glu	Leu	Gly	Ile	Ile	Asp	Lys	Ala	Glu	Phe	Asp
	130					135				140					
Arg	Arg	Met	Leu	Lys	Leu	Leu	Ala	Thr	Leu	Asn	Lys	Leu	Asp	Leu	Phe
145					150					155					160
Arg	Asn	Glu	Leu	Pro	Asn	Lys	Ala	Tyr	Asn	Thr	Ile	Thr	Gly	Gln	Lys
			165					170						175	
Val	Asn	Tyr	Gln	Asn	Lys	Pro	Gly	Glu	Ile	Gly	Phe	Ser	Ala	Leu	Asp
		180						185					190		
Ile	Gly	Arg	Met	Leu	Ile	Trp	Leu	Lys	Val	Ile	Lys	Glu	Arg	Tyr	Pro
	195					200						205			
Glu	Tyr	Ser	Asn	Ser	Ile	Asp	Asn	Val	Leu	Leu	Gly	Trp	Asn	Phe	Thr
	210					215					220				
Asn	Val	Ile	Asn	Pro	Cys	Gly	Met	Met	Tyr	Gly	Ala	Tyr	Leu	Glu	Asn
225					230					235					240
Gly	Gln	Pro	Lys	Tyr	Val	Gln	Glu	Gly	Arg	Leu	Gly	Tyr	Glu	Glu	Tyr
			245					250						255	
Gly	Ala	Ala	Gly	Phe	Ala	Leu	Trp	Gly	Phe	Gly	Thr	Cys	Gln	Ala	Ser
		260						265					270		
Gln	Pro	Gln	Pro	Tyr	Glu	Leu	Ala	Glu	Ile	Tyr	Cys	Val	Met	Val	Pro
	275					280						285			
Tyr	Asp	Ser	Arg	Asp	Pro	Arg	Leu	Thr	Ser	Gln	His	Asn	Tyr	Val	Val
	290					295					300				
Thr	Glu	Ser	Tyr	Val	Leu	Tyr	Gly	Leu	Glu	Phe	Gly	Phe	Asp	Lys	Pro
305					310					315					320
Thr	Asp	Arg	Glu	Asn	Ser	Pro	Arg	Asp	Tyr	Thr	His	Pro	Trp	Met	Lys
				325					330					335	

Asn Phe Ala Asp Arg Val Tyr Gln Ala Gln Glu Asn Arg Tyr Ala Ile
 340 345 350
 Thr Gly Ile Leu Ser Ala Arg Ser Glu His Gln Leu Asp Gln Ser Pro
 355 360 365
 Tyr Phe Val Tyr Asp Thr Val Phe Ser Asp Gly Phe Asn Trp Asn Thr
 370 375 380
 Ile Thr Asp Lys Gly Val Tyr Val Pro Asn Thr Ala Ala Val Ser Leu
 385 390 395 400
 Lys Ala Ala Leu Gly Met Trp Val Leu Trp Asn Ser Pro Tyr Thr Asp
 405 410 415
 Arg Leu Leu Asp Ala Ile Glu Asn Ala Asn Glu Ala Gly Lys Gly Tyr
 420 425 430
 Tyr Glu Gly Leu Tyr Glu Asn Gly Asp Gly Pro Ile Lys Glu Phe Thr
 435 440 445
 Ala Asn Asn Asn Gly Ile Met Leu Glu Ala Leu Leu Phe Lys Lys Glu
 450 455 460
 Gly Lys Leu Met Gln Phe Asn Ser Asp Asn Pro Lys Asp Pro His Phe
 465 470 475 480
 Ala Pro Ser Leu Trp Glu Lys Lys Leu Val Asp Leu Phe Glu Pro Asn
 485 490 495
 Asn Ala Ser Arg Asn Arg Pro Phe Leu Asn Ser Thr Pro Ala Val Lys
 500 505 510
 Thr Trp Cys Glu Gln Thr Gly Thr Thr Leu Arg Thr Lys Pro Ala Cys
 515 520 525
 Gln Ala Cys Gln Cys Ala Thr Cys Asn Thr Asp Glu Pro Val Lys Leu
 530 535 540
 Pro Pro Val Thr Ala Gln Cys Leu Arg Pro
 545 550 555

<210> 11273

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 11273

Ala Thr Cys Trp Asp Val Thr Ala Ala Lys Val Leu Arg Phe Ile Thr
 1 5 10 15
 Pro Asp Ser Leu Ser Thr Ser Cys Pro Phe Ala Arg Ala Ser Asn Ala
 20 25 30
 Ser Ala Ser Gly Cys Phe Leu Tyr Leu His His Leu Cys Met Arg Met
 35 40 45
 Gln His Lys Lys Leu Lys Phe Ser Gln Gln Asp Arg Asp His Phe Thr
 50 55 60
 Asn Met Lys Pro Phe Arg Asn Phe Lys Tyr
 65 70 75

<210> 11274

<211> 323

<212> PRT

<213> Enterobacter cloacae

<400> 11274

Thr His Arg Gly Arg Thr Gly Gly Pro Arg Lys Pro Ser Thr Gln Ser
 1 5 10 15
 Ser Gly Ala Ala Ala Tyr Tyr His Ala Asp Thr Leu Glu Thr Leu
 20 25 30
 Gly Ile Pro Asp Ala Ser Ala Ile Gly Met Gly Arg Leu Leu Asn Ala
 35 40 45
 Leu Gln Thr Leu Leu Trp Arg Tyr Pro Gln His Ala Gly Ala Val Arg
 50 55 60
 Asn Leu Leu Asp Arg Trp Lys Met Gly Ala Leu Ile Ala Asn Asn Thr

65					70					75				80
Thr	Ser	Gln	Ala	Ala	Val	Pro	Leu	His	His	Trp	Ala	Leu	Ala	Thr
				85					90					95
Glu	Pro	Arg	Asn	Ser	Phe	Gly	Tyr	Arg	Leu	Tyr	Ala	Ser	His	Thr
			100					105					110	Leu
Arg	Leu	Ile	Asp	Ser	Ala	Ala	Gly	Leu	Ala	Val	Thr	Asn	Pro	Pro
		115					120					125		Glu
Gly	Gln	Gln	Met	Ile	Asp	Ile	Asp	Gly	Ile	Met	Val	Pro	Asp	Glu
	130					135					140			Gly
Leu	Arg	Thr	Pro	Trp	Gly	Arg	Gln	Pro	Ser	Leu	Ile	Ser	Leu	Pro
145					150					155				Tyr
Leu	Leu	Thr	Gly	Leu	Glu	Leu	Gly	Phe	Asp	Ala	Gln	Ser	Ala	Glu
				165					170					Ile
Thr	Trp	Arg	Ile	Met	Gln	Ile	Gln	Gln	Arg	Arg	His	Ser	Leu	Arg
			180					185					190	Val
Arg	Lys	Pro	Pro	Ile	Ser	Thr	Asp	Tyr	Ala	Glu	Pro	Ala	Pro	Asp
		195					200					205		Tyr
Val	Asn	Asp	Leu	Pro	Asn	Arg	Gln	Pro	Leu	Gln	Asn	Ser	Ala	Leu
	210					215					220			Leu
Asp	Ala	Thr	Pro	Glu	Gln	Thr	Ala	Met	Thr	Ser	Thr	Arg	Thr	Ala
225					230					235				Phe
Ala	Trp	Tyr	Ala	Leu	Phe	Arg	Asn	Gly	Trp	Ser	Glu	Ala	Leu	Arg
				245					250					Gln
Gln	Val	Gln	Lys	Leu	Gln	Val	Pro	Gly	Lys	Gly	Trp	Gln	Arg	Gly
			260					265				270		Leu
Asn	Leu	Asn	Ser	Ser	Val	Asn	Glu	Ile	Val	Asp	Ala	Asp	Thr	Asn
	275						280				285			Ala
Val	Val	Leu	Glu	Ser	Leu	Ala	Tyr	Ile	Ala	His	Gly	Gln	Met	Leu
	290				295					300				Cys
Leu	Ala	Cys	Pro	Gly	Pro	Ala	Thr	Pro	Gln	Thr	Ser	Ser	Ala	Gly
305					310				315					Ala
Lys	Pro													320

<210> 11275

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 11275

Trp	Leu	Phe	Cys	Pro	Pro	His	Val	Gly	Ser	Phe	Gln	Ser	Ala	Arg	Pro
1				5					10					15	
Leu	Ser	Ala	Arg	Arg	Thr	Cys	Leu	Glu	Gly	Arg	Thr	Met	Lys	Phe	Tyr
			20					25					30		
Arg	Asp	Leu	Phe	Asp	Ala	Ser	Leu	Asn	Arg	Val	Leu	Pro	Glu	Asn	Asp
	35						40					45			
Lys	Arg	His	Phe	Phe	Glu	Thr	Phe	Trp	Glu	Thr	Phe	Val	His	Met	Ser
	50					55					60				
Pro	Glu	Thr	Glu	Gln	His	Phe	Ala	Arg	Asp	Gln	Gly	Gly	Asp	Gly	Gln
65					70				75					80	
Gln	Thr	Ile	Phe	Lys	Ser	Phe	Phe	Ala	Met	Leu	Ala	Val	Asp	Gly	Ala
			85						90					95	
Leu	Phe	Val	Pro	Asp	Phe	Leu	Glu	Arg	Leu	Ala	Arg	Glu	Gln	Ser	Asp
		100					105					110			
Glu	Gly	Leu	Gly	Leu	Pro	Pro	Arg	Phe	Phe	Gly	Leu	Trp	Arg	Glu	Ala
	115						120					125			
Met	Leu	Arg	Thr	Val	Arg	Ala	Cys	Asp	Pro	Leu	Cys	Asp	Glu	Glu	Ile
	130					135					140				
Leu	Thr	Ala	Trp	Ala	Met	Ala	Ile	Ala	Pro	Gly	Leu	Glu	Tyr	Leu	Arg
145				150					155						160
Arg	Gln	Ala	Glu	Leu	His	Tyr	Lys	Ala	Arg	Gly	Glu				

165

170

<210> 11276
 <211> 83
 <212> PRT
 <213> Enterobacter cloacae

<400> 11276
 Asn Lys Ala Ile Val Ser Glu Glu Thr Asn Ala Leu Pro Ala Lys Ile
 1 5 10 15
 Leu Phe Asn Lys Gln Asp Leu Pro Leu Ser Leu Ala Arg Pro Met
 20 25 30
 Pro Ala Arg Ile Lys Ser Gly Asn Leu Arg Ala Lys Leu Ile Ile Tyr
 35 40 45
 Thr Gly Asn Ser Cys Leu Phe Ile Cys Leu Arg Phe Ile Ser Leu Ile
 50 55 60
 Ile Cys Ala Gly Ile Asp Leu Phe Arg Tyr Glu Asn Asp Ile Ala Ile
 65 70 75 80
 Asn Val

<210> 11277
 <211> 67
 <212> PRT
 <213> Enterobacter cloacae

<400> 11277
 Cys Ser Ser Lys Gly Arg Ser Arg Leu Arg Lys Ile Cys Ile Gln Gly
 1 5 10 15
 Trp Asn His Ser Thr Leu Cys Gly Leu Arg Gly Gly Glu Leu Ser Pro
 20 25 30
 Leu Ala Asp Val Leu Asp Gln Gly Ser Glu Leu Gly Gly His Ile Val
 35 40 45
 Ala Leu Gly Lys Ile Glu Ile Lys Thr Arg Lys Arg Trp Lys Lys Arg
 50 55 60
 Ile Gln
 65

<210> 11278
 <211> 317
 <212> PRT
 <213> Enterobacter cloacae

<400> 11278
 Trp Arg Asn Ile Thr Ser Pro Arg Ala Gly Tyr Leu Thr Lys Glu Gly
 1 5 10 15
 Leu Met Arg Asp Lys Phe Leu Leu Thr Cys Ala Leu Leu Cys Val Ala
 20 25 30
 Thr Gly Ala Glu Ser Ala Pro Lys Asp Asp Ala Asp Ser Leu Arg Asp
 35 40 45
 Lys Asn Gly Glu Pro Val Gln Ala Gly Val Phe Thr Ser Arg Trp Gly
 50 55 60
 Arg Leu Phe Ser Gly Asn Glu Asp Val Phe Ser Gly Ala Leu Ser Phe
 65 70 75 80
 Ser Ser Gly Leu Lys Glu Gln Trp Met Thr Ile Pro Asn Ser Ser Asp
 85 90 95
 Thr Ala Glu Gln Lys Arg Lys Tyr Asn Gln Thr Leu Asn Leu Ser Leu
 100 105 110
 Gln Tyr Ser Pro Tyr Ser Tyr Trp Phe Ala Asn Val Thr Ser Arg Leu
 115 120 125
 Pro Val Thr Asp Thr Ser Arg Tyr Thr Ala Asp Phe Arg Tyr Ser Phe

130		135		140	
Gly Tyr Asp Asp Trp His	Ala Asn Thr Phe Ser	Leu Val Tyr Ser Asn			
145	150	155	160		
Tyr Gly Asp Asn Arg Phe	Trp Thr Ser Gly Asn Arg	Arg His Thr Tyr			
	165	170	175		
Phe Glu Gln Gly Ala Val	Thr Leu Ala Tyr Lys Phe	Ser Leu Pro Lys			
	180	185	190		
Pro Ile Glu Asn Thr Leu	Leu Ile Asn Lys Gly Asp	Ser Ile Ile Cys			
	195	200	205		
Gln Met Gly Tyr Ser Trp	Val Pro Arg Tyr Tyr Asp	Leu Asp Ser Asn			
	210	215	220		
Asp Ile Arg Lys Asn Lys	Asn Val Val Leu Gly Gly	Cys Gly Tyr Thr			
	225	230	235		240
Phe Lys Gln His Phe Phe	Val Arg Ala Thr Ala Phe	Trp Phe Pro Asp			
	245	250	255		
Ser Ser Gln Gln Gln Pro	Trp Asn Gly Asp Tyr Ser	Tyr Ser Phe Gly			
	260	265	270		
Tyr Ala Gly Tyr Thr Pro	Gly Ser Phe Ser Val Gln	Tyr Ala Asn Tyr			
	275	280	285		
Ser Gly Thr Arg Tyr Pro	Gly His Gln Ser Gly Ser	Gly Lys Phe Arg			
	290	295	300		
Glu Gly Thr Val Ser Val	Ile Trp Phe Leu Pro Leu				
305	310	315			

<210> 11279

<211> 327

<212> PRT

<213> Enterobacter cloacae

<400> 11279

Gly Ala His Met Thr Arg	Leu Arg Gly Phe Ser	Pro Gln Phe Asp Ser		
1	5	10	15	
Ile Gln Gln Phe Ile Leu	Thr Leu Thr His Val	Val Trp Glu Gln Lys		
	20	25	30	
Asp Ile Gly Gln Leu Ala	Asp Phe Tyr Ala Thr	Pro Val Val Phe Thr		
	35	40	45	
Thr Pro Glu Lys Gln Leu	His Glu Leu Ser Gln	Phe Met Arg Leu Thr		
	50	55	60	
Leu Glu Ala Met His Ser	Phe Pro Gln Arg Ala	Val Leu Thr Glu Asp		
	65	70	75	80
Ile Leu Cys Ser Gln Asn	Pro Gly Asp Glu Tyr	Tyr Ala Ala Gln Arg		
	85	90	95	
Thr Val Ala Arg Ile Gln	His Gln Gly Glu Gly	Phe Phe Gly Pro Pro		
	100	105	110	
Thr Gly Lys Asn Val Trp	Val Arg Thr Trp Ala	Asp Arg Ile Cys Val		
	115	120	125	
Asp Gly Ala Val Arg Gln	Glu Trp Leu Leu Gln	Asp Arg Ala Ala Ile		
	130	135	140	
Val Ala Gln Leu Gly Leu	Asp Val Arg Asp Phe	Ala Phe Asn Leu Ala		
	145	150	155	160
Thr Met Arg Gln Gln Leu	Gly Leu Glu Ser Val	Ser Ala Glu Thr Leu		
	165	170	175	
Asp Ala Arg Trp Ala Gly	Gly Pro Glu Gly Asp	Asp Val Glu Gly Ala		
	180	185	190	
Leu Ala Gly Val Val Glu	Arg Tyr Leu Thr Met	Trp Ala Gly Gly Asn		
	195	200	205	
Ser Gly Val Val Pro Gly	Leu Tyr His Pro Ala	Ala Thr Leu Tyr Ala		
	210	215	220	
Pro Gly His Cys Leu Cys	Thr Gly Glu Gln Glu	Ile Gly Ala Gln Leu		
	225	230	235	240
Ser Gly Tyr Arg Ala Ser	Phe Ala Asp Ser Glu	Thr Gln Leu His His		

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<210> 11280
<211> 61
<212> PRT
<213> Enterobacter cloacae
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<210> 11281
<211> 419
<212> PRT
<213> Enterobacter cloacae
```

<400>	11281														
Asn	Thr	Arg	Asn	Phe	Leu	Ala	Trp	Arg	Thr	Arg	Arg	Pro	Met	Ser	Gln
1				5					10					15	
Ile	Ala	Pro	Val	Leu	Ile	Asn	Lys	Asp	Val	Glu	Lys	Pro	Thr	Thr	Trp
			20					25					30		
Arg	Tyr	Ile	Ala	Ser	Asp	Lys	Arg	Asp	Leu	Arg	Ile	Asp	Phe	Met	Arg
			35				40					45			
Gly	Ile	Ala	Leu	Val	Met	Met	Val	Val	Ala	His	Thr	Glu	Val	Met	Ser
	50					55					60				
Ile	Phe	Asn	Ile	Phe	Thr	Trp	Glu	Arg	Phe	Gly	Leu	Val	Thr	Gly	Ala
65				70					75						80
Glu	Gly	Phe	Val	Ile	Leu	Ser	Gly	Phe	Met	Leu	Gly	Met	Leu	Asn	Arg
				85					90					95	
Val	Arg	Leu	Gln	Lys	Ala	Val	Leu	Leu	Thr	Ile	Ser	Trp	Gly	Leu	Tyr
			100					105					110		
Leu	Arg	Ala	Trp	Lys	Ile	Tyr	Arg	Ile	Asn	Ile	Ile	Ile	Ile	Leu	Ser
			115				120					125			
Phe	Leu	Leu	Leu	Gly	Tyr	Leu	Pro	Phe	Ile	Asn	Val	Phe	Glu	Val	Thr
	130					135					140				
His	Phe	Thr	Asp		Arg	Tyr	Ser	Gly	Thr	Thr	Trp	Ser	Leu	Tyr	Pro
145					150						155				160
Thr	Pro	Gln	Ile	Lys	Glu	Thr	Trp	Phe	Asn	Ile	Val	Leu	Tyr	Leu	Gln
				165					170					175	
Ile	Gly	Pro	His	Gln	Thr	Gln	Ile	Leu	Gly	Leu	Tyr	Ile	Phe	Leu	Leu
			180					185					190		
Leu	Leu	Ser	Pro	Leu	Phe	Leu	Gly	Met	Leu	Gln	Lys	Gly	Tyr	Val	Tyr
			195				200					205			
Trp	Leu	Leu	Gly	Leu	Ser	Leu	Leu	Val	Tyr	Gly	Gly	Trp	Gln	Met	Trp
	210					215					220				

Pro Val Arg Ala Thr Pro Ser Gln Phe Glu Phe Ala Phe Pro Leu Leu
 225 230 235 240
 Ala Trp Gln Phe Ile Phe Val Leu Gly Met Cys Ser Gly Trp Tyr Lys
 245 250 255
 Glu Asp Leu Ile Ser Phe Ala Arg Thr Pro Ala Gly Lys Val Val Leu
 260 265 270
 Val Ala Leu Val Ile Ile Ala Leu Leu Leu Gly Phe Ile Ala Gln Asn
 275 280 285
 His Thr Asn Pro Phe Met Pro Pro Ala Leu Leu Met His Ser Leu Ser
 290 295 300
 Pro Glu Asp Phe Asn Ala Phe Tyr His Thr Trp Ala Ala Lys Asn Gly
 305 310 315 320
 Leu Gly Pro Val Arg Val Leu Asn Asp Ile Cys Leu Met Val Thr Val
 325 330 335
 Tyr Leu Val Leu Thr Trp Cys Trp Leu Pro Leu Tyr Arg Leu Ala Gly
 340 345 350
 Trp Phe Leu Ile Pro Leu Gly Gln His Ser Leu Tyr Thr Phe Ile Leu
 355 360 365
 His Val Tyr Val Val Phe Leu Ile Ser Gln Phe Val Thr Phe Asp Leu
 370 375 380
 Trp Arg Gln Asp Trp Ile Val Asn Thr Phe Ile His Ala Ala Ala Leu
 385 390 395 400
 Gly Val Leu Trp Leu Met Ala Lys Tyr Asn Val Ala Ala Arg Trp Ile
 405 410 415
 Pro Asn

<210> 11282

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 11282

Arg Gly Ile Pro Gly Met Leu His Ser Gln Ser Ser Arg Val Gly Ser
 1 5 10 15
 Met Leu Leu Leu Leu Thr Ala Ile Ile Ala Phe Ala Val Ala Leu Tyr
 20 25 30
 Ala Trp Trp Thr Pro Leu Thr Gly Val Thr Gly Thr Ile Gly Ala Leu
 35 40 45
 Gly Val Val Ile Ala Ser Val Val Leu Ala Ile Leu Thr Val Met Leu
 50 55 60
 Arg Ala Ala Ser Arg Arg Gly Ala Arg Val Phe Leu Ile Ile Val Thr
 65 70 75 80
 Leu Val Val Leu Ala Gly Ile Gly Phe Ala Ala Ala Leu Leu His Gln
 85 90 95
 Tyr Ile Ile Thr Ala Ala Met Val Val Gly Leu Ile Gly Leu Ile Met
 100 105 110
 Leu Ser Ser His Ser Ala Arg Tyr Asn His Arg Val Arg Ser
 115 120 125

<210> 11283

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 11283

Ile Tyr Lys Gly Arg Tyr Thr Lys Leu Gly Phe Leu Ala Gly Ala Val
 1 5 10 15
 Leu Ala Thr Trp Leu Ser Leu Thr Tyr Pro Thr Gln Met Arg Ala Val
 20 25 30
 Phe Glu Gln Leu Val Thr Ile Val Gln Gln Ile Thr Gln Pro Ser Ser

35 40 45
 Glu Ser His Ser Asp Met Val Thr Pro Glu Gln Ser Tyr Pro
 50 55 60

<210> 11284

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 11284

Thr Ala Ser Ala Val Asn Trp Arg Ser Thr Met Lys Arg Phe Leu Phe
 1 5 10 15
 Met Ala Leu Ala Leu Thr Met Leu Val Ala Gly Cys Ser Thr Glu Val
 20 25 30
 Thr Glu Tyr Arg Gln Gln Gln Pro Arg Leu Asp Ile Phe Thr Tyr Phe
 35 40 45
 Gln Gly Lys Thr Glu Ala Trp Gly Met Val Gln Asp Arg Ser Gly Lys
 50 55 60
 Gln Ile Arg Arg Phe His Val Glu Ile Ala Gly Asp Val Ile Gly Asp
 65 70 75 80
 Thr Leu Thr Leu Asn Glu His Phe Val Tyr Asp Asp Gly Glu Lys Gln
 85 90 95
 Gln Arg Val Trp His Ile Arg Arg Val Gly Gln Asn Arg Tyr Glu Gly
 100 105 110
 Thr Ala Gly Asp Ile Glu Gly Val Ala Thr Gly Gln Ala Ala Gly Asn
 115 120 125
 Ala Leu Asn Trp Arg Tyr Ser Met Asn Val Lys Ala Asp Gly Lys Thr
 130 135 140
 Trp Leu Leu His Phe Asp Asp Trp Met Tyr Leu Gln Asp Ser Thr Arg
 145 150 155 160
 Leu Phe Asn Lys Thr Glu Met Lys Lys Phe Gly Val Thr Val Ala Thr
 165 170 175
 Val Thr Leu Phe Phe Thr Arg Lys Glu Gly Gly
 180 185

<210> 11285

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 11285

Leu Thr Pro Ser Leu Leu Ile Ile Ile Phe Thr Arg Asp Tyr Asn Arg
 1 5 10 15
 Ala Asn Asp Gly Gly Ser Val Thr Tyr Leu Glu Val Leu Asn Ile Asn
 20 25 30
 Pro Arg Gln Ile Arg Gly Ile Glu Trp Glu Asn His Cys Gly Ser Ala
 35 40 45
 Gly Ala Phe Ser Cys Val Pro Ala Pro Leu Thr Gly
 50 55 60

<210> 11286

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 11286

Leu Leu Asp Thr Ile Met His His Pro Ser Gln Arg Cys Ser Ala Val
 1 5 10 15
 Ser Gln Asp Ser His Leu Arg Ile Ile Thr Arg His Tyr Ser Lys Ser
 20 25 30
 Ser Thr Gly Gln Gly Thr Asp His Ser Val Ser Tyr Val Pro Ala Lys

	35		40		45
Glu	Ala	Thr	Ser	Asn	Ser
50			55		60
			Leu	Ile	His
				Glu	Lys
					Gly

<210> 11287

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 11287

Thr	Ser	Gln	Pro	Asn	Glu	Arg	Leu	Ile	Leu	Asn	Arg	Val	Glu	Arg	Ser
1			5						10					15	
Arg	Leu	Val	Tyr	Gln	Tyr	Pro	His	Thr	Ile	Asn	Thr	Met	Asn	Ile	Ala
		20					25					30			
Val	Pro	Ile	Ser	Gly	Pro	Leu	Gln	Arg	Val	Asp	Met	Ala	Gln	Lys	Val
	35					40					45				
Leu	Pro	His	Leu	Val	Ala	Phe	Val	Val	Asn	Arg	Gly	Val	Ser	Ile	Leu
	50				55						60				
Ile	Asp	Asp	Asp	Ala	Val	Ala	Ile	Leu	Tyr	Gly	Phe	Asp	Asn	Phe	Leu
65				70					75					80	
Val	Thr	His	Asp	Leu	Gln	Gln	Gly	Phe	Arg	Ala	Gly	Lys	Glu	Arg	His
			85				90							95	

Gln

<210> 11288

<211> 181

<212> PRT

<213> Enterobacter cloacae

<400> 11288

Pro	Gln	Leu	Gln	Val	Ser	Gly	Pro	Ile	Ile	Ala	Ala	Met	Lys	Ser	Ala
1				5					10					15	
Gln	Arg	Gly	Val	Gln	Arg	Ser	Arg	Val	Leu	Pro	Gln	Arg	Ile	Met	Ala
		20					25					30			
Thr	His	Leu	Lys	Thr	Ala	Lys	Asn	Leu	Arg	Leu	Phe	His	Arg	Val	Ala
	35					40					45				
Arg	Arg	Gly	Phe	Ala	Pro	Gly	Gly	Ile	Met	Leu	Leu	Asp	Lys	Pro	Val
	50				55					60					
Phe	Arg	Ile	Asn	Asp	Arg	His	Phe	Ala	Leu	Asp	Val	Leu	Pro	Gly	Lys
65			70						75					80	
Gln	Arg	Arg	Leu	Gln	His	Ile	Pro	Gln	Ser	Arg	Asp	Ala	Val	Gly	Gln
			85				90							95	
Val	Ile	Gly	Gly	Asn	Val	Glu	Glu	Lys	Ser	Ala	Val	Ala	Ser	Gln	Arg
		100				105						110			
Gly	Gly	Ile	Asp	Val	Ala	Ala	Leu	Ala	Leu	Asp	Pro	Gly	His	Glu	Ser
	115					120					125				
Ile	Ile	Ala	Leu	Ile	Ala	Leu	Ala	Thr	Ala	Glu	Gln	Gln	Val	Leu	Lys
	130				135					140					
Gln	Met	Arg	Glu	Thr	Gly	Glu	Ser	Arg	Trp	Leu	Val	Met	Ala	Ser	Gly
145				150				155						160	
Thr	His	Ala	Arg	Gln	Arg	Arg	Arg	Ala	Cys	Arg	Leu	Arg	Leu	Met	His
			165				170							175	

Gln Arg Cys Ala

180

<210> 11289

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 11289

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Ile Leu Tyr Leu Tyr Thr Val Leu Tyr Ile Asp Ser Lys Asp Gln Gly
1          5          10          15
Gly Thr Arg Ser Asp Val Val Arg Val Gln Glu Glu Glu Gly Tyr Ile
20          25          30
Gln Asn Gly Gly Glu Ala Asn Leu Ala Glu Arg Val Phe Asn Glu Met
35          40          45
Phe Lys Glu Tyr Lys Cys Pro Tyr Gly Arg Tyr Gly Gln
50          55          60

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<210> 11290

<211> 146

<212> PRT

<213> Enterobacter cloacae

<400> 11290

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Pro Met Ser Thr Leu Pro Ser Val Ile Ser Arg Phe Val Asp Tyr Tyr
1          5          10          15
Ala Thr Leu Asp Thr Gln Pro Pro Ser Ala Leu Ala Gly Ile Tyr Arg
20          25          30
Ala Asp Ala Thr Leu Ile Asp Pro Phe Gly Glu His Ser Gly Val Phe
35          40          45
Ala Ile Gln Arg Tyr Phe Thr His Leu Leu Ala Asn Val Gln His Cys
50          55          60
Arg Phe Thr Val Asp Ala Pro Leu Gln Gln Gly Asp Arg Phe Val Val
65          70          75          80
Thr Trp Met Met His Trp Ser His Pro Arg Ile Ala Arg Gly Ala Val
85          90          95
Arg Gln Leu Pro Gly Cys Ser Val Val Asp Met Arg Asp Asp Arg Ile
100          105          110
Val Arg Gln Arg Asp Tyr Tyr Asp Ala Gly Glu Met Ile Tyr Glu His
115          120          125
Leu Pro Ile Leu Gly Trp Ala Val Arg Gly Val Lys Arg Arg Val Lys
130          135          140
Ser
145

```

<210> 11291

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 11291

```

Cys Pro His His Gln Arg Gly Ala Ala Asp Cys Gly Thr Arg Met Lys
1          5          10          15
Arg Tyr Gly Gln Val Phe Leu Leu Ala Ile Gly Phe Asp Leu Tyr Trp
20          25          30
Thr Leu Val Val Leu Phe Arg Glu Gln Gly Leu Val Ile Trp Ile Ala
35          40          45
Leu Ala Val Leu Ala Trp Leu Leu Leu Pro Pro Ser His Arg Val Tyr
50          55          60
Ala Leu Val Leu Ala Ala Ser Gly Ala Leu Leu Asp Ala Leu Trp Ala
65          70          75          80
Leu Thr Gly Leu Ile Ala Phe Thr Gly Ala Ser Leu Met Pro Leu Trp
85          90          95
Met Val Ala Leu Trp Leu Met Phe Ala Thr Val Trp Thr His Leu Thr
100          105          110
Arg Thr Thr Thr Leu Pro Gly Trp Leu Leu Thr Val Leu Ala Thr Leu
115          120          125
Gly Gly Pro Val Ala Tyr Leu Ile Gly Glu His Leu Gly Ala Ile Thr
130          135          140

```

Phe Gln Glu Pro Thr Phe Ile Val Val Ser Trp Met Phe Pro Gly Trp
 145 150 155 160
 Leu Val Leu Met Leu Phe Phe His Leu Leu Met Gly Arg Gln Gln
 165 170 175

<210> 11292

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 11292

Ser Ser Pro Pro Gly Lys Arg Arg Lys Ser Val Met His Ile Ile Leu
 1 5 10 15
 Ile Leu Leu Val Ile Ala Gly Gly Met Gly Leu Ser Val Glu Ala Gly
 20 25 30
 Leu Leu Gly Pro Leu Gly Ala Glu Val Gly Asp Leu Trp Ala Ala Phe
 35 40 45
 Ser Ile Phe Ser Val Gly Thr Gly Leu Thr Phe Leu Leu Met Leu Phe
 50 55 60
 Phe Ser Pro Arg Asn Ser Pro Ser Phe Phe Ala Gln Pro Ser Trp His
 65 70 75 80
 Leu Leu Gly Gly Val Leu Gly Pro Val Tyr Val Ile Ile Leu Thr Ile
 85 90 95
 Ala Thr Pro Ala Ile Gly Ile Ala Met Thr Met Ile Gly Ile Leu Ala
 100 105 110
 Gly Gln Val Phe Lys Ser Leu Ile Ile Asp His Tyr Gly Leu Leu Gly
 115 120 125
 Thr Pro His Arg Arg Ile Asp Thr Lys Arg Ile Ile Ala Leu Gly Phe
 130 135 140
 Ile Ile Ala Ala Leu Ile Leu Val Ala Gln Gly
 145 150 155

<210> 11293

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 11293

Asn Ala Pro Val Asp Ala Arg Ser Lys Tyr Leu His Leu Ser Met Lys
 1 5 10 15
 Arg Gly Gly Gly Val Ala Glu Leu Glu Arg Leu Arg Ala Phe Thr Gln
 20 25 30
 Arg Gln Arg Ala Thr Ala Gln Thr Val Gln Gln Ala Glu Glu Gln Pro
 35 40 45
 Ser Arg Asp Ala Asp Val Ala Arg Asp Ile Gly Phe Lys Arg Lys Asp
 50 55 60
 Gly Ile Gly His Glu Arg Ser Leu Leu Leu Arg Gly Trp Leu Cys Ser
 65 70 75 80
 Gly Thr Arg Phe Ser His Ser Leu Ser Ala Cys Gln
 85 90

<210> 11294

<211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 11294

Arg Gly Pro Glu Met Gly Thr Ala Ile Phe Met Val Leu Met Val Cys
 1 5 10 15
 Gly Tyr Trp Tyr Thr Ser Arg Asp Leu Ser Thr Arg Phe Lys Ile Lys
 20 25 30

```

Arg Ser Phe Gly Trp Asp Val Tyr Phe Leu Val Ala Leu Tyr Gly Cys
      35              40              45
Ile Phe Val Leu Gln Gly Val Ile Ala Thr Gly Leu Leu Trp Leu Leu
      50              55              60
Leu Phe Ala Leu Ser Ala Ala Asp Asn Thr Phe His Phe Thr Ser Ala
      65              70              75              80
Lys Tyr Ala Asp Trp Gln Ile Asp Phe Met Asn Trp Ser Phe Leu Gly
              85              90              95
Ile Gln Ala Pro Val Val Val Met Leu Thr Phe Ala Ile Leu Phe Cys
              100              105              110
Leu Tyr Arg Ser Asn Trp Ala Gly Ser Ala Arg Leu Asp Gly Glu Gly
              115              120              125
Arg Lys Lys Leu Tyr Lys Arg Leu Ala Gln Ser Ser Gly Ile Glu Gln
              130              135              140
Leu Leu Tyr Gln Cys Met Glu Glu Gly Glu Leu Ala His Val Thr Leu
      145              150              155              160
Lys Ser Arg Arg Ile Tyr Ile Gly Met Ile His Thr Ala Thr Leu Glu
              165              170              175
Tyr Glu Lys Thr Ala Asn Ile Val Leu Ile Pro Met Leu Ser Gly Tyr
              180              185              190
Arg Asp Gly Lys Asn Met Gln Leu Cys Ile Glu His Asn Tyr Ser Lys
              195              200              205
Trp Tyr Ala Glu His Asp Ile Thr Leu Asp Ser Glu Pro Lys Ser Ala
      210              215              220
Met Asp Phe Arg Lys Val Ile Met Leu Asp Gln Ile Glu Ser Ile Ser
      225              230              235              240
Leu Phe Asp Pro Ala Ser Ala Ser Ala Leu Ala Met Arg Glu
              245              250              255

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<210> 11295

<211> 220

<212> PRT

<213> Enterobacter cloacae

<400> 11295

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Ala Phe Ile Cys Pro Val Ala Pro Glu Ala Thr Glu Thr Tyr Leu Tyr
1              5              10              15
His Asp His Gln Glu Asn Asn Met His Thr Ser Lys Thr Leu Lys Arg
      20              25              30
Leu Leu Ala Val Ser Ala Val Ala Ala Met Phe Ser Thr Val Gly Val
      35              40              45
Gln Ala Gln Thr Thr Ser Ala Ala Gln Thr Gln Thr Ala Gly Lys Ala
      50              55              60
Gln Pro Asp Ala Arg Leu Ser Ser Gly Asp Glu Lys Ala Leu Lys Asp
      65              70              75              80
Met Ala Gln Ala Asn Ile Asn Glu Val Ala Ala Ala Arg Leu Ala Leu
              85              90              95
Asp Lys Ala Gln Ser Ser Glu Val Lys Thr Phe Ala Gln Lys Met Val
              100              105              110
Asp Asp His Gly Ala Ala Leu Thr Lys Val Gln Thr Val Ala Gln Lys
              115              120              125
Lys Gly Val Glu Leu Pro Thr Glu Pro Asp Ala Ala His Lys Ala Leu
              130              135              140
Asn Ser Arg Leu Glu Asn Gln Arg Gly Asp Ala Phe Asp Lys Met Tyr
      145              150              155              160
Met Glu Tyr Ala Gly Val Lys Asp His Glu Lys Val Leu Ser Lys Leu
              165              170              175
Lys Ser Asp Ala Ser Lys Ile Asp Asp Pro Asp Val Lys Ala Leu Ala
              180              185              190
Asn Glu His Thr Pro Val Val Glu Gln His Leu Lys Ser Ala Glu Gln
              195              200              205

```

Met Ser Thr His Ser Gly Ala Ser Ala Asp Lys
 210 215 220

<210> 11296
 <211> 86
 <212> PRT
 <213> Enterobacter cloacae

<400> 11296
 Arg Asp Ser Arg Ala Met Ala Arg Asp Asp Ser Pro Ser Pro Ser Leu
 1 5 10 15
 Ala Gly Ala Phe His Gly Leu Thr Gly Thr Ala Ala Phe Phe Leu Cys
 20 25 30
 Val Val Phe Ser Gln Lys Lys Ala Pro Tyr Tyr Asp Gly Ala Arg Leu
 35 40 45
 Leu Ile Ser Leu Leu Phe Ile Gln Arg Val Gly Asn His Val Val Thr
 50 55 60
 Thr Ile Arg Arg Leu Ala Cys Thr Ala Gly Arg Asp Gln Asn Val Leu
 65 70 75 80
 Phe Ala Gly Phe Arg
 85

<210> 11297
 <211> 191
 <212> PRT
 <213> Enterobacter cloacae

<400> 11297
 Leu Ser Thr Thr Met Ala Cys Trp Val Arg Arg Thr Ala Gly Ser Ile
 1 5 10 15
 Gln Asn Ala Leu Leu Arg Trp Asp Leu Ser Ser Pro Arg Ser Phe Ser
 20 25 30
 Trp Arg Arg Gly Asn Val Met Thr Val Ile Met Ile Ile Leu Ala Val
 35 40 45
 Ile Gly Gly Ala Thr Leu Ser Ile Gln Ala Ala Ile Asn Gly Gln Leu
 50 55 60
 Gly Ser Ser Val Gly Val Phe Lys Ser Ala Phe Leu Thr Phe Ser Val
 65 70 75 80
 Gly Ala Leu Val Thr Ala Leu Leu Ile Phe Phe Phe Glu Pro Lys Gln
 85 90 95
 Ala Val Ser Leu Met Asp Val Pro Lys Trp Gln Leu Leu Gly Ala Leu
 100 105 110
 Cys Gly Val Pro Tyr Ile Val Ile Met Val Leu Ala Val Gln Arg Ile
 115 120 125
 Gly Thr Ala Val Ala Thr Val Ala Val Ile Leu Gly Gln Leu Ala Met
 130 135 140
 Ser Met Leu Ile Asp Asn Phe Gly Trp Leu Asn Asn Glu Ala Ile Pro
 145 150 155 160
 Phe Ser Val Ser Arg Phe Gly Ala Val Val Cys Leu Ser Ile Ala Leu
 165 170 175
 Phe Phe Ile Tyr Ser Ser Ser Lys Leu Gln Pro Glu Glu Asp
 180 185 190

<210> 11298
 <211> 66
 <212> PRT
 <213> Enterobacter cloacae

<400> 11298
 Gln Gln Lys Asn Pro Gly Arg Gln Ser Arg Leu Ile Val Arg Thr Thr
 1 5 10 15

His His Leu Ser Cys Arg Arg Gly Pro Glu Thr Ala Arg Gly Leu Ile
 20 25 30
 Met His Tyr Val Asp Leu Leu Glu Asn Asn Ala Ile Glu His Phe Asn
 35 40 45
 Leu Phe Trp Arg Lys Ile Trp Leu Gln His Phe Leu Ser Ser Asp Val
 50 55 60
 Cys
 65

<210> 11299

<211> 377

<212> PRT

<213> Enterobacter cloacae

<400> 11299

Ile Ala Gln Phe Met Lys Asn Pro His Val Ala Val Lys Leu Ser His
 1 5 10 15
 Phe Pro Cys Ala Arg Gly Ser Gly Ile Asn Tyr Ala Leu Ile Thr Phe
 20 25 30
 Arg Gln His Glu Leu Arg Met His Asn Gln Met Ser Gln Ala Phe Thr
 35 40 45
 Phe Thr Leu Lys Arg Ser Cys Phe Asp Glu Asn Tyr Asn Pro Ser Glu
 50 55 60
 Asn Thr Arg Thr Thr Thr Asn Phe Ala Asn Leu Ala Arg Gly Glu Lys
 65 70 75 80
 Arg Gln Glu Asn Leu Arg Asn Thr Leu Val Met Ile Asn Asn Arg Phe
 85 90 95
 Asn Ala Leu Ala Ser Trp Asp Asn Pro Lys Ala Asp Arg Tyr Ala Val
 100 105 110
 Glu Leu Glu Ile Ile Ser Val Asp Met Asn Ile Gly Gly Asp Phe Thr
 115 120 125
 Phe Pro Ala Ile Glu Ile Leu Gln Thr Thr Ile Val Asp Lys Lys Thr
 130 135 140
 His Glu Arg Ile Glu Gly Ile Val Gly Asn Asn Phe Ser Ser Tyr Val
 145 150 155 160
 Arg Asp Tyr Asp Phe Ser Val Leu Leu Leu Glu His Asn Lys Asp Gln
 165 170 175
 Pro Arg Phe Thr Leu Pro Glu Asn Phe Gly Glu Leu His Gly Asn Ile
 180 185 190
 Phe Lys Ser Phe Val His Ser Ala Glu Tyr Gln Ala Asn Phe Lys Lys
 195 200 205
 Ala Pro Val Ile Cys Leu Ser Val Ser Ser Lys Asp Thr Tyr Arg Arg
 210 215 220
 Thr Gly Asn His His Pro Val Leu Gly Tyr Glu Tyr Gln Pro Asp Gly
 225 230 235 240
 Glu Ser Leu Thr Glu Gln Tyr Phe Ala Lys Met Gly Leu Lys Val Arg
 245 250 255
 Tyr Phe Met Pro Glu Asn Ser Val Ala Pro Phe Ala Phe Phe Phe Thr
 260 265 270
 Gly Asp Leu Leu Arg Asp Tyr Thr Asn Leu Glu Leu Ile Gly Thr Ile
 275 280 285
 Ser Thr Met Glu Thr Phe Gln Lys Ile Tyr Arg Pro Glu Ile Tyr Asn
 290 295 300
 Ala Asn Ser Ala Ala Gly Gln Cys Tyr Gln Pro Asp Leu Asn Gln Gln
 305 310 315 320
 Asp His Ser Leu Thr Lys Ile Val Tyr Asp Arg Glu Glu Arg Ser Arg
 325 330 335
 Leu Ala Ile Glu Gln Gly Lys Tyr Thr Glu Glu Arg Phe Ile Lys Pro
 340 345 350
 Tyr Lys Thr Leu Leu Glu Gln Trp Ser His His Phe Thr Leu Ser Phe
 355 360 365

Asn Thr Asp Lys Arg Phe Phe Ser
370 375

<210> 11300

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 11300

Gly	Cys	His	Ala	Met	Lys	His	Leu	Leu	Met	Thr	Leu	Phe	Ser	Ser	Pro
1				5					10					15	
Glu	Ser	Leu	Leu	Gln	Val	Met	Ser	His	Gln	Glu	Ile	Ile	Glu	Ala	Val
			20					25					30		
Glu	Asp	Gly	Asp	Arg	Ile	Ile	Ile	Asp	Gln	Asp	Gly	Asn	Ala	Ser	Val
		35					40					45			
Asn	Tyr	Lys	Ser	His	Glu	Val	Arg	Gln	Asp	Phe	Leu	Arg	His	Val	Asn
	50					55					60				
Ala	Leu	Lys	Arg	Ala											
65						70									

<210> 11301

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 11301

Asp	Glu	Gln	His	Asp	Gly	Ala	Val	Thr	Phe	Lys	His	Ala	Phe	Met	Leu
1				5					10					15	
His	Tyr	Leu	Asn	Lys	Leu	Leu	Leu	Ser	Gln	Ser	Leu	Arg	Ala	His	Lys
			20					25					30		
His	Lys	Lys	Ser	Phe	Asp	Leu	Asn	Ser	Pro	Arg	Ile	Arg	Gly	Ile	Phe
		35					40					45			
Leu	Ala	Val	Cys	Lys	Gln	Lys	Thr	Arg	Gln	Lys	Arg	Val	Phe	Val	Val
	50					55					60				
Phe	Glu	Lys	Ile	Ile											
65						70									

<210> 11302

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 11302

Lys	Thr	Lys	Phe	Glu	Gly	Met	Lys	Met	Lys	Lys	Val	Leu	Ala	Leu	Val
1				5					10					15	
Val	Ala	Ala	Ala	Met	Gly	Leu	Ser	Ser	Ala	Ala	Phe	Ala	Ala	Glu	Thr
			20					25					30		
Thr	Ala	Thr	Ala	Ala	Pro	Ala	Ala	Ser	Thr	Ala	Ala	Pro	Ala	Lys	Thr
		35					40					45			
Val	His	His	Lys	Lys	His	His	Lys	Ala	Ala	Lys	Pro	Ala	Ala	Glu	Gln
	50					55					60				
Lys	Ala	Gln	Ala	Ala	Lys	Lys	His	His	Lys	Lys	Ala	Ala	Lys	Pro	Ala
65					70				75					80	
Val	Glu	Gln	Lys	Ala	Gln	Ala	Ala	Lys	Lys	His	His	Lys	Lys	Ala	Ala
			85					90						95	
Lys	His	Glu	Ala	Ala	Lys	Pro	Ala	Ala	Gln	Pro	Ala	Ala			
			100					105				110			

<210> 11303

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 11303

```

His Gly Asp Cys Leu Ala Pro Glu Ala Leu Gln Gly Phe Leu Thr Glu
1          5          10          15
Glu Ala Leu Leu Ser Gly Gln Leu Ser Leu Met Arg Tyr Cys Cys Gln
          20          25          30
Ser Cys Gly Ile Cys Pro Val Ala Lys Arg Phe Thr Ser Lys Glu Glu
          35          40          45
Val Thr Glu Asn Ala Leu Gly Ile Met Arg Leu Ile Ile Glu Leu Pro
          50          55          60
Cys Leu Asn Glu Lys Leu Gln Ala Thr
65          70

```

<210> 11304

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 11304

```

Ile Lys Pro Pro Leu Tyr Ser Tyr Ile Tyr Asp Phe Leu Met Phe Asn
1          5          10          15
Leu Ala Lys Gly Leu Ser Tyr Lys Gln Lys Leu Asn Gly Ser Phe Phe
          20          25          30
Leu Ile Ile Asp Lys Ser His Pro Asp Gly Cys Glu Gly Gly Cys Phe
          35          40          45
Leu Cys Tyr Cys Val Arg Ile Val Leu Ser Ala Ile Lys Met Gly Leu
          50          55          60
Phe Phe Tyr Leu Arg Ile Phe Arg Gly Asn Lys Thr
65          70          75

```

<210> 11305

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 11305

```

Ser Leu Ser Gln Tyr Gln Gly Gly Val Gly Ile Glu Lys Asn Lys Glu
1          5          10          15
Leu Val Ala Ser Gln Ala Ala Tyr Ser Gly Tyr Ile Val Glu Phe Asn
          20          25          30
Asn Gly Ser Arg Leu Trp Ile Asn Arg Glu Thr Leu Leu Val Gly Trp
          35          40          45
Phe Asp Asn Pro Gln Val Pro Gln Lys Gly Arg Met Arg Phe Gln Lys
          50          55          60
Thr Lys Met Asn Leu Phe Ala Tyr Leu Leu Glu His Ala Val Arg Lys
65          70          75          80
Glu Val Ser Arg Asp Glu Leu Leu His Gln Val Trp Glu Lys Tyr Gly
          85          90          95
Leu Lys Ser Ser Ser Arg Gln Leu Trp His Ala Ile Gly Gln Leu Lys
          100          105          110
Leu Ser Leu Phe Thr Leu Gly Ile Pro Tyr Glu Phe Ile Gln Ser Asn
          115          120          125
Lys Gly Lys Thr Tyr Ser Leu Glu Lys Val Lys Val Phe Phe Ile Thr
          130          135          140
Gln Ser Asp Ile Asn Asp Asp Ala Tyr
145          150

```

<210> 11306

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 11306

```

Tyr Met Asn Leu Ala Tyr Phe Leu Phe Leu Ser Ile Thr Val Met Leu
1           5           10           15
Thr Ser Phe Ile Ile Lys Ser Leu Val Val Leu Val Lys Phe Lys Leu
          20           25           30
Leu Arg Asp Glu Arg Leu Glu Tyr Thr Ser Asn Lys Asn Ile Asp Glu
          35           40           45
Met Tyr Asp Leu Met Asn Ala Lys Glu Glu Ile Leu Ile Arg His His
          50           55           60
Lys Gln Met Leu Ala Leu His Leu Ser Leu Leu Ile Phe Val Leu Phe
65           70           75           80
Ile Ala Tyr Ile Tyr
          85

```

<210> 11307

<211> 99

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (47)

<220>

<221> UNSURE

<222> (70)

<220>

<221> UNSURE

<222> (76)

<400> 11307

```

Leu Ala Ala Leu Gln Pro Ala Gly Gln Asp Ala Arg Trp Arg Ser Thr
1           5           10           15
Ala Gln Arg Leu Pro Pro His Ser Val Gln Trp Pro Ser Thr His Ala
          20           25           30
Arg Pro Leu Ala His Lys Ala Ser Arg Ala Thr Asp Arg Xaa Leu
          35           40           45
Gln Pro Pro Pro Arg Gln Ser Pro Phe Pro Ala Ser Arg Cys Tyr Gln
          50           55           60
Arg Val Ser Ser Ser Xaa Thr Phe Val Arg Pro Xaa Cys Gly Asp Leu
65           70           75           80
Ser Gly Pro Leu Ile Ile Ile Pro Gln Gln Ile Lys Val Ile Pro Met
          85           90           95
Gly Thr Val

```

<210> 11308

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 11308

```

Tyr Leu Ser Ile Leu Ile Ser Ser Ala Asn Asn Gly Ala Asn Glu Met
1           5           10           15
Asn Ile Thr Ser Gln Pro Asn Pro Ala Ser Lys Glu Phe Asp Ile His
          20           25           30
Ala Lys Leu Lys Ala Ala Asn Ser His Trp Ser Tyr Leu Arg Ala Ala
          35           40           45

```

Gln	Pro	His	Gln	Asn	Asp	Phe	Asp	Tyr	Glu	Phe	Asn	Thr	Thr	Phe	Ile
	50					55					60				
Asp	Gly	Leu	Glu	Phe	Ala	Ile	Tyr	Glu	Arg	Val	Gly	Asn	Tyr	Phe	Val
65					70					75					80
Leu	Val	Asp	Phe	Phe	Lys	Ser	Tyr	Glu	Glu	Ala	Cys	Asp	Asp	Ala	Lys
				85					90					95	
Lys	Ile	Ile	Asp	Asp	His	Pro	Asp	Ile	Lys	Lys	Met	Phe	Ser	Ala	Ile
			100					105					110		

<210> 11309

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 11309

Ile	Ala	Gly	Val	Phe	His	Ser	Lys	Lys	Val	Glu	Leu	Asp	Gly	Ile	Cys
1				5					10					15	
Tyr	Glu	Thr	Ser	Asp	Ile	Cys	Ile	Ser	Glu	Leu	Ser	His	Leu	Glu	Phe
			20					25					30		
Ser	Ala	Phe	Leu	Ser	Thr	Asp	Gly	Ala	Ala	Thr	Ile	Ala	Ile	Ala	Lys
		35					40					45			
Asn	Gly	Thr	Asn	Phe	Thr	Gly	Leu	Met	Gln	Leu	Asn	Asn	Asp	Tyr	Ser
	50					55					60				
Leu	Leu	Phe	Tyr	His	Asp	Gly	Lys	Ile	Asn	Met	Glu	Gly	Leu	Ile	Lys
65					70					75					80
Glu	Met	Glu	Leu	Lys	Gly	Tyr	Met	Tyr	Gln	Gly	Ala	Met	Gly	Asn	Asp
				85					90					95	
Asp	Val	Ala	Ala	Glu	Phe	Pro	Gly	Ile	Leu	Leu	Ile	Ala	Pro	Glu	Lys
			100					105					110		

Leu

<210> 11310

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 11310

Leu	His	Gln	Arg	Ser	Phe	Asn	Ile	Asn	Pro	Ile	Gly	Lys	Ser	Phe	Pro
1				5					10					15	
Val	Gly	Glu	Gly	Phe	Pro	Phe	Phe	Leu	Glu	Lys	Pro	Met	Thr	Leu	Asn
			20					25					30		
Thr	Ser	Met	Leu	Asn	Lys	Val	Ser	Ala	Lys	Gln	Ile	Ser	Glu	Asn	Phe
		35					40					45			
Ala	Lys	Ser	Tyr	Pro	Asp	Leu	Glu	Gly	Ala	Val	Ile	Thr	Lys	Ile	
	50					55				60					
Glu	Ile	Ser	Gly	Cys	Gln	Gly	Ser	Arg	Arg	Asn	Asp	Lys	Ile	Asp	Leu
65					70					75					80
Ser	Tyr	Asp	Gly	Asp	Asp	Ile	Thr	Asp	Gln	Lys	Ser	Val	Ser	Lys	Asn
				85					90					95	
Gln	Leu	Arg	Trp	Ile	Asp	Ile	Lys	Ala	Leu	Ser	Phe	Gln	Ser	Thr	Ile
			100					105					110		
Thr	Ser	Arg	Ile	Ser	Thr	Pro	Leu	Leu							
		115					120								

<210> 11311

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 11311

Leu Lys Leu Thr Lys Asp Asp Phe Ile Asn Pro Phe Arg Phe Asn Ile
 1 5 10 15
 Ala His Phe Ile Pro Phe Thr Pro Ile Ser Val Glu Gly Asp Glu Thr
 20 25 30
 Gln Asp Tyr Tyr Gln Glu Gln Leu Ile Thr Asp Leu Ala Glu Glu Ala
 35 40 45
 Met Arg Val Tyr Glu Lys Ile Ser Lys Asn Asn Asn Leu Arg Ser Ser
 50 55 60
 Thr Ile Asp Arg Leu Lys Gln Met Gln Asn Lys Ile Ile Ser Phe Met
 65 70 75 80
 Phe Ile His Lys Glu Ala Ala Val Leu Ala Glu Ala Ile Lys His Ile
 85 90 95
 Met Asn Asn Leu Pro Lys Gly Ala Ile Ser Glu Pro Arg Asp Val Ala
 100 105 110
 Val Leu Gln Gln Trp Phe Tyr Phe Met Ser Asp Ala Ser Met Leu Lys
 115 120 125
 Arg Ile Ile Ser Gly Glu Gln Lys Val Thr Asp Trp Leu Glu Ser Ile
 130 135 140
 Thr Arg Ser Phe Asn Gln Ser Ser Gln Thr Glu Pro Asn Ala Leu Gln
 145 150 155 160
 Asn Thr Gly Ile Glu Ala Ile Leu Asp Ser Thr Asn Val Phe Gln Val
 165 170 175
 Glu Pro Val Val Glu Asn Asp Ile Lys Asn Ser Thr Phe Ser Asn Thr
 180 185 190
 Asp Ser Val Ala Glu Pro Glu Lys Ser Val Ser Gln Gln Glu Asp Asn
 195 200 205
 Ala Glu Asn Gly Phe Asp Ile Glu Leu Lys Gly Trp
 210 215 220

<210> 11312

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 11312

Val Pro Leu Phe Ile Lys Arg Tyr Ser Met Lys Leu Asp Leu Lys Ser
 1 5 10 15
 Ser Pro Arg His Ile Lys Arg Leu Gln Asn Ile Ala Lys Val Ile Ser
 20 25 30
 Gly Leu Gly Asp Val Arg Val Val Ile Asp Asp Asn Thr Lys Gly Pro
 35 40 45
 Tyr Phe Asp Pro Val Asn Lys Val Cys Val Leu Pro Asn Gly Asp Tyr
 50 55 60
 Ser Asp Asp Asp Phe Val Ser Leu Ile Glu Gly Phe Thr Cys His Glu
 65 70 75 80
 Ala Gly His Gly Arg Tyr Thr Val Ser Glu Val Tyr Ser Asp Ala Phe
 85 90 95
 Asn Ser Val Leu Met Ser Ser Glu Gly Phe Thr Arg Phe Asp Asp Gly
 100 105 110
 Met Asn Ala Glu Phe Glu Ser Leu Ala Glu Lys Arg Lys Ala Tyr Ser
 115 120 125
 Arg Ala Lys Arg Leu Thr Gly Leu Ile Asn Leu Phe Asp Asp Val Gln
 130 135 140
 Met Glu Glu Lys Val Gly Asn Asp Tyr Pro Asp Ala Lys Arg Arg Leu
 145 150 155 160
 Ala Ala Thr Tyr Ala Leu Met Val Lys Ala Gly Arg Met Thr Pro Asp
 165 170 175
 Ile Ser Ser Arg Pro Glu Asn Pro Val Leu Phe Ile Glu Trp Tyr Leu
 180 185 190

Leu Asn Ser Ser Arg Val Gln Cys Leu Asn Cys Gly Val Gln Glu Arg
 195 200 205
 Thr Phe Phe
 210

<210> 11313

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 11313

Thr Leu Thr Lys Leu Gly Phe Ile Tyr Met Lys Asn Ile Lys Ser Ile
 1 5 10 15
 Ala Ala Ala Ser Leu Leu Ser Ala Val Ser Phe Ser Gly Leu Ala Gln
 20 25 30
 Asn Ile Ser Val Thr Asp Thr Thr Leu Asp Gly Ala Glu Ala Gln Ile
 35 40 45
 Ala Ala Lys Ala Lys Glu Ala Lys Thr Ser Tyr Lys Ile Ile Ser Ala
 50 55 60
 Tyr Thr Gly Asn Arg Val His Met Thr Ala Val Leu Gly Glu
 65 70 75

<210> 11314

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 11314

Arg Gln Glu Ala Ser Thr Met Arg Leu Ala Ser Tyr Ala Ile Ala Leu
 1 5 10 15
 Leu Phe Ile Thr Ser Leu Thr Gly Cys Lys Pro Glu Asn Gly Lys Ala
 20 25 30
 Phe Val Gly Asn Trp Val Glu Glu Thr Asn Ser Lys Ile Pro Ala Lys
 35 40 45
 Ile Ser Ile Ala Asp Glu Lys Ser Gly Gln Arg His Phe Tyr Ala Val
 50 55 60
 Lys Ile Thr Asp Leu Ile Trp Asp Lys Glu Thr Gly Val His Tyr Asn
 65 70 75 80
 Thr Lys Lys Ile Asn Ala Met Leu Asp Lys Glu Asn Phe Leu Trp Ala
 85 90 95
 Asn Asn Gly Asp Asn Phe Ile Ile Phe Asp Asp His Leu Met Tyr Asn
 100 105 110
 Gly Asp Arg Tyr Lys Arg Val Glu
 115 120

<210> 11315

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 11315

Val Pro Gln Arg Ala Gln Pro Leu Ser Phe Val Ala Ser Gly Gln Ala
 1 5 10 15
 Gly Asn Ser Glu Glu Thr Ala Ser Asp Lys Leu Glu Glu Arg Gly Asp
 20 25 30
 Asp Val Lys Ser Ser Trp Pro Leu Arg Val Gly Leu His Thr Cys Tyr
 35 40 45
 Asn Gly Ala Tyr Lys Glu Lys Arg Pro Arg Glu Ser Lys Arg Thr Ser
 50 55 60

<210> 11316
 <211> 203
 <212> PRT
 <213> Enterobacter cloacae

<400> 11316
 Pro Gln Met Ser Lys Asn Lys Ala Arg Ser Lys Ala Leu His Gln Thr
 1 5 10 15
 Phe Ser Glu Ile Ile Pro Glu Met Asp Lys Ala Leu Asn Lys Gln Leu
 20 25 30
 Leu Glu Val Leu Met Lys Tyr Thr Glu Arg Asp Asn Glu Leu Ile Val
 35 40 45
 Ile Leu Asn Glu Asp Gly Pro Asn Ile Ile Glu Leu Lys Ser Leu Lys
 50 55 60
 Pro Val Ser Leu Leu Ala Glu Lys Leu Ser Ala Tyr Ser Ser Tyr Tyr
 65 70 75 80
 His Val Asp Val Val Glu Leu Val Val Lys Lys Ile Asp Phe Glu Gly
 85 90 95
 Ala Tyr Lys Leu Leu Lys Ala Ser Pro Asp Val Pro Leu Phe Lys Ser
 100 105 110
 Leu Thr Glu Leu Asp Lys Tyr Leu Val Glu Glu Phe Glu Lys Tyr Gly
 115 120 125
 Leu Asn Ser Phe Leu Asp Val Asp Asn Leu Asp Tyr Ser Leu Glu Lys
 130 135 140
 Ala Ser Glu Leu Lys Asn Glu Gln Leu Ile Asn Trp Val Ser Asp Ile
 145 150 155 160
 Ile Cys Lys Arg Glu Lys Leu Thr Leu Arg Lys Arg Phe Asp Val Ala
 165 170 175
 Val Lys Ala His Tyr Glu Asn Val Glu Asn Met Tyr Asp Ser Ser Pro
 180 185 190
 Gln Arg Gly Arg Arg Thr Arg Ala Lys Arg
 195 200

<210> 11317
 <211> 74
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (74)

<400> 11317
 Thr Leu Gly Leu Arg Glu Ala Thr Leu Lys Glu Gln Phe Leu Val Ser
 1 5 10 15
 Ala Val Ser Leu Tyr Pro Ile Thr Trp Phe Lys Gln Phe Pro Lys Trp
 20 25 30
 Thr Tyr Thr Ser Asp Gln Thr Asn Leu Pro Lys Leu Val Phe Phe Pro
 35 40 45
 Phe Pro Glu Ala Arg Arg Ile Thr Asn Gly Tyr Glu His Gly Phe Pro
 50 55 60
 Ile Lys Ile Phe Leu Leu Arg Asn Arg Xaa
 65 70

<210> 11318
 <211> 285
 <212> PRT
 <213> Enterobacter cloacae

<400> 11318

Phe Gln Ile Thr Ala Ile Asn Ser Ala Thr Ser Leu Thr Val Thr Pro
 1 5 10 15
 Ala Ala Ser Gln Ala Leu Ser Gly Gln Lys Tyr Gly Ile Leu Val Thr
 20 25 30
 Asp Ser Leu Ser Val Asp Gly Leu Ala Gln Ser Met Ser Gln Leu Ile
 35 40 45
 Asn Glu Tyr Asp Glu Asn Ile Gly Ala Trp Glu Thr Phe Ala Thr Thr
 50 55 60
 Ser Ala Asn Gln Asn Ile Thr Val Thr Ile Asn Gly Ala Arg Val Thr
 65 70 75 80
 Ile Pro Ala Ile Gly Lys Leu Val Gln Lys Gly Ser Asn Gly Ala Val
 85 90 95
 Gly Val Ser Asp Gly Gly Thr Gly Ala Thr Asn Ala Ala Asp Ala Arg
 100 105 110
 Thr Asn Leu Gly Leu Gly Ser Ser Ala Thr Lys Asp Val Gly Thr Asp
 115 120 125
 Ser Gly Asn Val Met Gln Val Gly Ala Phe Gly Val Gly Thr Tyr Gln
 130 135 140
 Ala Pro Arg Pro Asn Asp Ala Asn Ser Ser Phe Ile Ser Asp Ala Asp
 145 150 155 160
 Gly Asn Thr Ser Trp Ala Pro Ala Asn Gly Cys Gly Tyr Gln Ser Ser
 165 170 175
 Tyr Asn Thr Gln Arg Ile Ala Gln Met Trp Val Thr Thr Gly Gly Ala
 180 185 190
 Gly Tyr Cys Arg Phe Leu Leu Asn Thr Asn Pro Gln Thr Ala Lys Thr
 195 200 205
 Asp Ala Pro Trp Thr Val Phe Gln Ser Ala Gly Thr Ser Asp Ile Asn
 210 215 220
 Phe Lys Lys Val Thr Gly Asp Leu Asp Leu Asn Glu Ser Leu Ser Asn
 225 230 235 240
 Ile Ala Ala Met Asp Phe Lys Thr Phe Tyr Tyr Leu Ala Asp Glu Asp
 245 250 255
 Lys Val Ile Arg Arg Gly Val Ile Ala Gln Glu Leu Glu Lys Ile Asp
 260 265 270
 Pro Gln Val Phe Thr Thr Arg Ser Lys Lys Val Leu Cys
 275 280 285

<210> 11319

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 11319

Glu Gly Ala Leu Asp His Asn Asn His Thr Ile Ser Leu Ile Tyr Asn
 1 5 10 15
 Lys Met Leu Ile Leu Phe Ile Gln Val Asn Asp Arg Tyr Glu Ile His
 20 25 30
 Pro Tyr Gln Arg Ala Gly Asp Lys Leu Thr Phe Ile Lys Asn Asn Leu
 35 40 45
 Leu Asn Ile Phe Ile Phe Leu His Glu Ala Ile Arg Pro Glu Pro
 50 55 60

<210> 11320

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 11320

Gln Thr Gly Ser Gly Ser Asp Cys Tyr Leu Thr Ala Ser Pro Ala Thr
 1 5 10 15
 His Asn Cys Asp Ser Met Glu Gln Val Ala Asp Lys Phe Phe Asp Arg

20 25 30
 Leu Val Ser Gly Gln Ile Lys Ile Lys Arg Gly Leu Ser Val Asn Gly
 35 40 45
 His Ser Ser Lys Glu Lys Tyr Asn Leu Ile Ala Gly Gly Met Val Asn
 50 55 60
 Val Lys Ser Leu Val Arg Gly
 65 70

<210> 11321

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 11321

Pro Ile Tyr Arg Leu Val Asp Asn Tyr Asn Gln Arg Ala Val Gly Phe
 1 5 10 15
 Pro Gln Gln Thr Met Gly Ile Ala Ala Pro Gly Gln Arg Met Gly Glu
 20 25 30
 Gln Thr Gly Ile Asn Gly Phe Phe Arg Lys Arg Gln Met His Arg Ile
 35 40 45
 Arg Phe His Leu Asn Arg Gly Ala Ile Lys Arg Tyr Ala Asn Leu Met
 50 55 60
 Arg Asp Ser Ala Ala Phe Gly Ile Asp Phe Cys Ala Gln Ile Ala Asn
 65 70 75 80
 Leu Lys Gln Val Lys Thr Ile His Phe Arg Glu Pro Gly Phe Lys Leu
 85 90 95
 Lys Phe

<210> 11322

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 11322

His Val Leu Leu Ser Gly Asp Arg Tyr Thr Pro Val Ile Glu Thr Val
 1 5 10 15
 Ala Glu Pro Asp Ser Phe Pro Ile Arg Leu Val Phe Pro Thr Leu Arg
 20 25 30
 Leu Phe Ile Leu Cys Asp Leu Ser Gln Gly Val Ala Ser Leu Ser Ala
 35 40 45
 Ala Arg Ser Ala Glu Arg Ile Ala Asn Gly Ser Ser Asp Val Phe Arg
 50 55 60
 Asp Ser Gly Asn Ser Phe Ser Phe Lys Gly Trp Gln Asn Phe
 65 70 75

<210> 11323

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 11323

Lys Lys Ala Val Asn Leu Gly Leu Leu Ser Ile Gln Gln Cys Gln Ile
 1 5 10 15
 Leu Arg Gln Ser Lys His Pro Arg Pro Met Lys Met Ile Gln Cys Gln
 20 25 30
 Lys Lys Thr Arg Tyr Gln Asn Asp Leu Lys Lys Arg Asp Ala Gly Arg
 35 40 45
 Asp Tyr His Ser Ala Leu Trp Gly Tyr Leu Leu Ala Leu Ile Pro His
 50 55 60
 Arg Leu Val Val Val

70

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 11324

Gln Pro Phe Phe Ser Asp Met Asn Ser Arg Val Thr Asn Pro Glu Ser
1 5 10 15

Tyr Ile Phe Ser Ala Ile Ile Tyr Ile Gly Lys Asp Asn Phe Thr Ser
20 25 30

Asn Glu Val Ala Lys Ile Leu Ile Gly Arg Phe Ser Leu Pro Lys Asn
35 40 45

Tyr Leu Lys Ala Lys Ala Phe Ala Tyr Asn Gln Ile Gln Gly Leu Val
50 55 60

Arg Lys Gly Leu Leu Asn Lys Val Arg Lys Leu Gly Ala Tyr Gln Tyr
65 70 75 80

Leu Tyr Ser Ala Thr Ser Glu Phe Asn Val Ala Lys Glu Asn Val Glu
85 90 95

Leu Ile Glu Val Ser Gln Lys Ser Pro Cys Gln Leu Ile Ser Ser Ala
100 105 110

Thr Ser Tyr Glu His Ser Asn Val Asn Ile Gln Ile Arg Thr Leu Ile
115 120 125

Glu Lys Tyr Ser Ser Glu Leu Glu Lys Val Ser Gly Val Lys Glu Ile
130 135 140

Tyr Glu Glu Leu Ile Ile Ala Val Pro Ser Arg Glu Asn Glu Phe Arg
145 150 155 160

Lys Leu Ser Leu Glu Gln Glu Lys Lys Gln Ile Lys Ile Asn Glu Gln
165 170 175

Ile Phe Phe Thr Thr Lys Leu Gln Gly Cys Pro Ile Asn Ser Met Val
180 185 190

Gln